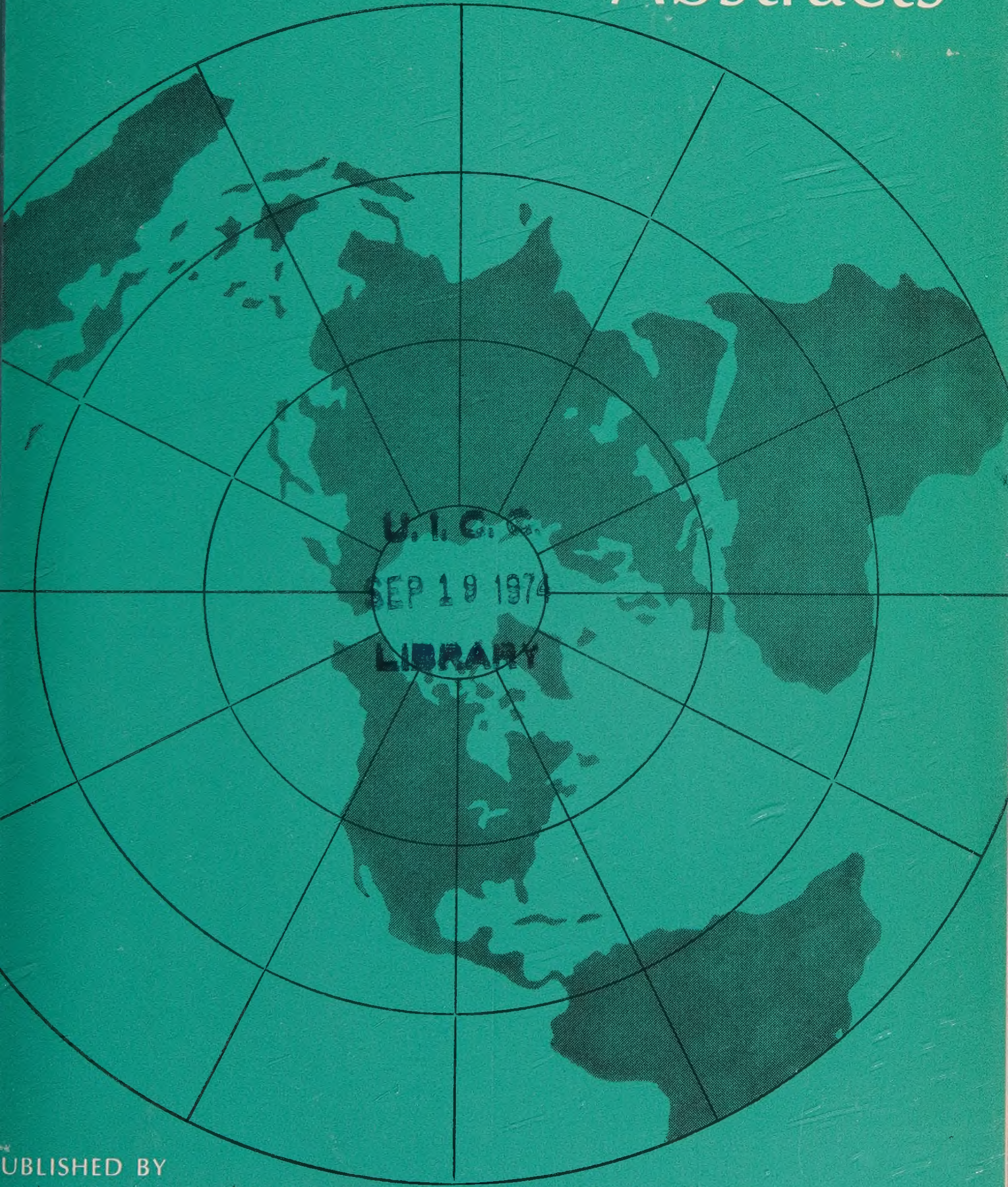
Meteorological & Geoastrophysical Abstracts

OL. 21 INDEXES JAN.-DEC. 1970



U.I.C.C.
SEP 19 1974
LIBRARY

UBLISHED BY
AMERICAN METEOROLOGICAL SOCIETY

EDITOR
Malcolm Rigby *

ASSOCIATE EDITOR
M. Liliana Notarangelo

TECHNICAL EDITOR
Mary J. Cox

ANALYST
Isadore L. Dordick
Chicago, IL.

SUBJECT INDEXER
Betty I. P. Rae *

CATALOGER
Edith N. Haupt *

EDITORIAL ASSISTANTS
Frances J. Cruser
Vivian A. Deuschl *
Robert Garian *
Rita A. Gough *
Charlene M. Reynolds *

---

* Part time

Meteorological and Geoastrophysical Abstracts is a monthly publication presenting, in English, current meteorological and geoastrophysical abstracts gleaned from foreign and domestic literature.

Meteorological & Geoastrophysical Abstracts

Publication Office
American Meteorological Society
45 Beacon Street, Boston, MA. 02108

Editorial Office
P.O. Box 1736
Washington, D.C. 20013
Telephone: (202) 546-6734

Address all business communications, orders, and inquiries to the Executive Director, American Meteorological Society, 45 Beacon Street, Boston, MA. 02108. Exchanges and reprints may be sent directly to P. O. Box 1736, Washington, D.C. 20013.

Subscription Rates
Government agencies and industrial, commercial, scientific, and research organizations, $400.00. Educational institutions and public libraries, $200.00. Back volumes: Vol. 16–24 (1965–1973), same as above. Vol. 1–15 (1950–1964), $50.00 per vol.; $10.00 per issue. Special price, Vol. 1–10 (1950–1959), complete set $200.00.

METEOROLOGICAL AND GEOASTROPHYSICAL ABSTRACTS

Vol. 21 Indexes Jan.–Dec. 1970

QC
851
A62
V.21
INDEXES
1970
MAIN

Advisory Board

Malcolm Rigby, *Chairman*

Werner A. Baum
Woodrow C. Jacobs
Francis S. Johnson
Richard H. Belknap
Jack M. McCormick

Cumulative Author, Subject, and Geographic Indexes
(Vol. 21, No. 1–12, 1970)

Sept. 1974

Published by the American Meteorological Society at 45 Beacon Street,
Boston, MA. 02108. Second-class postage paid at Boston, MA. and
at additional mailing offices.

ERRATA

p. 3625 *Insert:* Schneider, Maximilian (ed.), see Germany (Federal Republic). Deutscher Wetterdienst. 21.9–129R.

VOLUME 21, 1970

21.1 –37	Title translation: *change* "1966" to "1967."
21.1 –436	Title translation: *change* "1967" to "1968." Publication date: *change* "1968" to "1969."
21.1 –518	Abstract and subject headings: *change* "Charni Vrah" to "Cherni Vrakh."
21.1 –786	Geographic UDC: *change* "(4)" to "(430)."
21.2 –61	Title translation: *change* "isanomal" to "isanomals."
21.2 –327	Geographic UDC: *change* "(430.2)" to "(430)."
21.2 –454	Title: *change* first word from "La" to "Le." Title translation: *change* to "Proton events in the solar region during 1965, 1966, and 1967."
21.2 –787	Title translation: *change* "The standard mean" to "Mean levels."
21.3 –125	Author: *change* "Bessiadovski" to "Besiadovskiĭ."
21.3 –241	Title: *change* "suppress" to "suppression."
21.3 –256	Author: *change* "Bavlovskaia" to "Pavlovskaia."
21.3 –257	Title translation, abstract, and subject headings: *change* "Iasi" to "Jassy."
21.3 –271	Author: *change* "Fux-Rabinovich" to "Fuks-Rabinovich."
21.3 –344	Author: *change* "Cheng" to "Chang."
21.3 –558	Abstract: *change* "Eskdalmuir" to "Eskdalemuir."
21.3 –592	Title translation: *change* "of" to "to."
21.4 –360	Author: *change* "Sarukhanian, Z.I." to Sarukhanian, E.I."
21.4 –420	Subject heading: *change* "Balchikski" to "Balchikskiĭ."
21.4 –428	Author: *change* "Hanson" to "Hansen."
21.4 –557	Author: *change* "Dos Santos Junior, A.G." to "Dos Santos, A.G., Jr."
21.4 –673	Author: *change* "Dietrich, Genter" to "Dietrich, Günter."
21.4 –761	Title: *change* "Lultdruckwerte" to "Luftdruckwerte."
21.4 –762, –765	Author: *change* "Nguyen, Ngoc Tvi" to "Nguyen, Ngoc Thuy."
21.5 –315	Author: *change* "Jaachia" to "Jacchia."
21.5 –389	Editor: *change* "Pao, Tih Ho" to "Pao, Yih Ho."
21.5 –487	Title translation: *change* "Tatra" to "Tatras."
21.5 –502	Title: *change* "Grauss" to "Gauss."
21.6 –152	Title: *change* "Phéomènes" to "Phénomènes."
21.6 –464	Title translation: *change* "spot" to "spots."
21.6 –577	Title translation: *change* "For" to "Fog."
21.6 –638	Title: *change* "Treněianskych" to "Trenčianskych."
21.6 –846	Author: *change* "Rao, P. Krishna" to "Krishna Rao, P."
21.7 –71	Title: *change* "guardring to "guarding."
21.7 –822	Abstract and subject headings: *change* "Byrrang Mountains" to "Byrranga Mountains."
21.8 –27	Author: *change* "Hohnson" to "Johnson."
21.8 –237	Abstract and subject headings: *change* "Dobrogea" to "Dobrudja."
21.8 –402	Title: *change* "Ekspecimental'nom" to Eksperimental'nom."
21.8 –408	Title: *change* "Heary" to "Heavy."
21.9 –281	Title translation, abstract, and subject headings: *change* "Amu-Dar'ya" to "Amu Darya."
21.9 –302	Author: *change* "Jakus, Emma" to "Bodolai, Emma (Jakus)."
21.9 –557	Title translation, abstract, and subject headings: *change* "Chrzanów" to "Chryzanow."
21.9 –613	Abstract and subject headings: *change* "Monterey" to "Monterrey."
21.9 –98R	Title: *change* "Tartary" to "Tatary."
21.9 –192R	Title: *change* "Tsunamis" to "tsunamis."
21.10–341	Title translation: *change* "Ural" to "Urals."
21.10–430	Title translation, abstract, and subject headings: *change* "Karakumy" to "Kara-Kum."
21.10–557	Title translation, abstract, and subject headings: *change* "Amu-Dar'ya" to "Amu Darya."
21.11–50	Title: *change* "Radiokakatsionnye" to "Radiolokatsionnye."
21.11–330	Geographic UDC: *change* "(265.26)" to "(265.51)."
21.11–399	Title translation, abstract, and subject headings: *change* "Sydary" to "Syr Darya."
21.11–74R	Title translation: *change* "Vol. 22" to "Vol. 20."
21.11–76R	Title and title translation: *change* "1957" to "1947."
21.12–24R	Title: *change* "varité" to "vérité."

Vol. 21, No. 7 Author index: *delete* "Peck, A. J." and *add* "Strupczewski, Witold," 21.7–776.

AN ALPHABETICAL LIST OF BIBLIOGRAPHIES PUBLISHED IN PART II OF *METEOROLOGICAL AND GEOASTROPHYSICAL ABSTRACTS* (UNTIL 1960, *METEOROLOGICAL ABSTRACTS AND BIBLIOGRAPHY*), VOL. 1, NO. 1, JAN. 1950–VOL. 15, NO. 12, 1964

Acoustical Propagation, 1(10), 1950; 10(7), 1959
Aerobiology, 1(2), 1950
Agricultural Meteorology, 10 (Supplement no. 3), 1959
Airglow, 8(2), 1957; 11(11), 1956
Albedo, 8(7), 1957
Arctic Synoptic Meteorology, 7(1), 1956
Atmospheric Dynamics and Circulation, 12(12), Pt. 3, 1961
Atmospheric Pollution, 1(1), 1950
Auroral Physics, 4(10), 1953; 5(3), 1954; 12 (1,2), 1961

Balloons, 5(5), 1954
Bibliographies, 6(1,2), 1955
Brooks, C. E. P., Works of, 10(1), 1959

Carbon Dioxide, 3(2), 1952
Climate of Arctic, 5(9), 1954
Climate of Argentina, etc., 3(3), 1952
Climate of Australia, 4(4), 1953
Climate of Central Africa, 3(8), 1952
Climate of Enclosed Spaces, 7(2), 1956
Climate of Middle East, 2(6), 1951
Climate of Near East, 2(5), 1951
Climate of Northeast Africa, 2(10), 1951
Climate of Northwest Africa, 3(1), 1952
Climate of Pacific, 4(9), 1953
Climate of Southeast Asia, 5(2), 1954
Climatic Changes, 1(7), 1950; 15(11,12), 1964
Cloud Physics, 1(3), 1950; 6(6), 1955; 13(3), 1962
Condensation Trails, 2(9), 1951
Constants, Nomograms, etc., 2(4), 1951
Cooling Power, 6(11), 1955
Cosmic Rays, 7(3,4), 1956; 9(9), 1958; 13(4), 1962; 14(10,11), 1963

Dew, 3(4), 1952

Energy Exchange, Sea–Atmosphere, 13(5), 1962
Evaporation, 1(11), 1950; 10(8), 1959
Evapotranspiration, 10(9,10), 1959

Forecast Verification, 11(7), 1960
Forecasting, 12(12 Pt. 1), 1961
Forecasting Special Elements, 8(3), 1957
Forest Micrometeorology, 8(4), 1957
Frost, 4(3), 1953

Geomagnetism, 9(10,11), 1958; 13(2), 1962
Glaze and Rime, 3(10), 1952

Hail, 1(4), 1950
Humidity Instruments, 13(12), 1962
Hydrometeorological Forecasting, 8(5), 1957; 10 (Supplement no. 2), 1959

cing, 1(9), 1950
ndustrial Meteorology, 5(10), 1954
nstruments and Techniques, 10 (Supplement no. 1), 1959
nversions, 7(6), 1956
onosphere, 6(4), 1955; 11(4,5,6), 1960; 13(6), 1962; 13(10), 1962; 15(1), 1964; 15(12), 1964

Jet Stream, 4(7), 1953

Lightning, 14(9), 1963
Limnology, 12(3), 1961
Long Range Forecasting, 2(1,2), 1951; 9(7), 1958
Lunar Influences, 14(12), 1963

Medical Meteorology, 8(11), 1957
Meteors, 8(8), 1957
Mountain Meteorology, 2(11), 1951

Noctilucent Clouds, 15(4), 1964
Nuclei, 6(8,9), 1955; 15(6), 1964
Numerical Forecasting, 5(6), 1954; 8(6), 1957; 11(3), 1960; 14(6), 1963

Objective Forecasting, 3(5), 1952
Ocean Waves, 5(11), 1954
Ocean Waves and Currents, 9(4), 1958; 13(9), 1962 15(5), 1964
Oceanographic Instruments, 14(4,5), 1963
Oceanographic Meteorology, 5(1), 1954
Ozone, 10(5,6), 1959

Physical and Dynamic Oceanography, 9(5,6), 1958; 12(12, Pt. 2), 1961
Planetary Atmospheres, 12(9,10,11), 1961
Precipitation, 10 (Supplement no. 2), 1959
Precipitation Chemistry, 12(7), 1961

Radar Meteorology, 2(8), 1951; 6(7), 1955; 9(8), 1958; 11(8), 1960; 14(2), 1963
Radiation Bioclimatology, 4(8), 1953
Radiation Data, 5(7), 1954
Radio Astronomy, 9(1), 1958; 14(7,8), 1963; 15(9), 1964
Radioactivity in the Atmosphere, 7(5), 1956; 9(3), 1958; 13(7,8), 1962; 15(8), 1964
Reference Works, 11(1), 1960
Rocket Meteorology, 11(9), 1960

Satellite Meteorology, 11(10), 1960; 14(3), 1963; 15(2,3), 1964
Sferics, 4(11), 1953; 10(4), 1959
Snow Micrometeorology, 7(7,8), 1956
Soil Moisture, 10(3), 1959
Soil Temperature, 2(3), 1951
Solar Astrophysics, 9(2), 1958
Solar Events, 13(11), 1962
Solar Radiation, 15(10), 1964
Solar Weather Relationships, 8(1), 1957
Special Winds, 2(7), 1951
Storm Surges, 6(3), 1955
Stratus Forecasting, 3(6), 1952
Subsurface Ocean Currents, 15(5), 1964

Textbooks, 11(2), 1960
Thunderstorms, 1(8), 1950
Tornadoes, 1(5), 1950; 10(2), 1959
Tropical Cyclones, 7(9,10,11), 1956
Tropopause, 5(4), 1954
Tropospheric Propagation, 8(9,10), 1957
Turbulence, 3(11), 1952; 4(1,2), 1953

Upper Atmosphere Humidity, 12(8), 1961
Upper Atmosphere Photochemistry, 6(5), 1955
Upper Atmosphere Structure, 12(4,5,6), 1961
Upper Atmosphere Winds, 4(5,6), 1953
Urban Climatology, 3(7), 1952

Van Allen Belts, 13(1), 1962
Vertical Motion, 5(8), 1954
Visibility, 3(9), 1952
Volcanic Dust, 1(6), 1950

Weather Modification, 1(3), 1950; 6(10), 1955; 11(12), 1960; 13(3), 1962; 14(1), 1963; 15(6,7), 1964
Wind Waves and Swell, 5(11), 1954

SELECTED LIST OF FREQUENTLY CITED PERIODICALS

Acoustical Society of America, N. Y., Journal
Acta Climatologica, Szeged, Hungary
Acta Hydrophysica, Berlin
Acta Meteorologica Sinica, Peking
Agricultural Meteorology, Amsterdam
Akademiya Nauk Arm. S.S.R., Izvestiya. Seria Fizika
Akademiya Nauk Az. S.S.R., Izvestiya. Seria Nauk o Zemle
Akademiya Nauk S.S.S.R., Doklady. Seria Matematika, Fizika
Akademiya Nauk S.S.S.R., Izvestiya. Fizika Atmosfery i Okeana
Akademiya Nauk S.S.S.R., Izvestiya. Fizika Zemli
Akademiya Nauk S.S.S.R., Izvestiya. Seria Geografiya
Akademiya Nauk S.S.S.R., Mezhduvedomstvennyy Geofizicheskiy Komitet, Rezul'taty Issledovanii po Programme MGG (Various series)
Akademiya Nauk Ukr. R.S.R., Kiev. Morskoy Gidrofizicheskiy Institut, Trudy
Alma-Ata, Kazakhstan. Nauchno-Issledovatel'skiy Gidrometeorologicheskiy Institut, Trudy
American Geophysical Union, EOS, Transactions
American Meteorological Society, Bulletin
Angewandte Meteorologie, Berlin
Annalen der Meteorologie, Offenbach a.M.
Annales de Géophysique, Paris
Annales des Télécommunications, Paris
Annali di Geofisica, Rome
Antarctic Journal of the United States, Washington
Antarctic Record, Tokyo
Applied Optics, N Y.
Archiv für Meteorologie, Geophysik und Bioklimatologie, Ser. A and B, Vienna
Arctic and Alpine Research, Boulder, CO.
Arctic, Montreal
Arkiv för Geofysik, Stockholm
Atmosphere, Toronto
Atmospheric Environment, Oxford
Australian Journal of Agricultural Research, Melbourne
Australian Journal of Physics, Melbourne
Australian Meteorological Magazine, Melbourne
Beiträge zur Geophysik, Leipzig
Boundary-Layer Meteorology, Dordrecht, Holland
Bulletin of Marine Science, Coral Gables, FL.
Bulletin Scientifique, Zagreb
Cahiers O.R.S.T.O.M., Paris
Canadian Journal of Earth Sciences, Ottawa
Canadian Journal of Physics, Ottawa
Clean Air, Melbourne
Contributions to Atmospheric Physics, Oxford (formerly Beiträge zur Physik der Atmosphäre)
Coopération Méditerranéenne Pour L'Energie Solaire, Marseilles, Bulletin
Deep-Sea Research, Oxford
Deutsche Hydrographische Zeitschrift, Hamburg
Earth and Planetary Science Letters, Amsterdam
East African Agricultural and Forestry Journal, Nairobi
Ecological Monographs, Durham, N. C.
Ecology, Durham, N. C.
Environmental Research, N. Y.
Environmental Science and Technology, Washington
Erde, Berlin
Erdkunde, Bonn
Facilities for Atmospheric Research, Boulder, CO.
Földrajzi Értesítő, Budapest
France. Comité Central d'Océanographie et d'Etude des Côtes, Cahiers Oceanographiques
France. Météorologie Nationale, Paris, MET-MAR, Bulletin
Geofisica e Meteorologia, Genoa
Geograficheskoye Obshchestvo S.S.S.R., Izvestiya
Geomagnetizm i Aeronomiya, Moscow
Geophysica, Helsinki
Geophysical Journal, London
Geophysical Magazine, Tokyo
Gigiyena i Sanitariya, Moscow
Health Physics, N. Y.
Hidrotehnica, Bucharest
Icarus, N. Y.
Időjárás, Budapest
Indian Journal of Meteorology and Geophysics, Delh
International Association of Scientific Hydrolog Bulletin
International Journal of Biometeorology, Amsterda
Japan. Science Council. Ionosphere Research Com mittee, Report of Ionosphere and Space Research Japan.
Journal de Mécanique et de Physique de l'Atmosphèr Paris
Journal de Recherches Atmosphèriques, Clermon Ferrand
Journal of Agricultural Meteorology, Tokyo
Journal of Applied Meteorology, Boston
Journal of Atmospheric and Terrestrial Physic Oxford, Eng.
Journal of Geomagnetism and Geoelectricity, Kyo Japan
Journal of Geophysical Research, Washington
Journal of Glaciology, Cambridge, Eng.
Journal of Hydrology, Amsterdam
Journal of Hydrology, Dunedin, N. Z.
Journal of Marine Research, New Haven, CT.
Journal of Meteorological Research, Tokyo
Journal of Physical Oceanography, Boston
Journal of Physics, Section E, London
Journal of Weather Modification, Coronado, CA.
Journal of the Atmospheric Sciences, Boston
Khidrologiia i Meteorologiia, Sofia
Kiev, Ukraine. Nauchno-Issledovatel'skiy Gidr meteorologicheskiy Institut, Trudy
Kosmicheskiye Issledovaniya, Moscow
Leningrad. Glavnaya Geofizicheskaya Observatoriy Trudy
Leningrad. Gosudarstvennyy Gidrologicheskiy Institu Trudy
Leningrad. Institut Eksperimental'noy Meteorologi Trudy
Leningrad. Nauchno-Issledovatel'skiy Institut Aer klimatologii, Trudy
Leningrad. Nauchno-Issledovatel'skiy Institut Gidr meteorologicheskogo Priborostroyeniya, Trudy
Limnology and Oceanography, Lawrence, KS.
Marine Observer, London
Mariners Weather Log, Washington
Meteoritika, Moscow
Meteorological Magazine, London
Meteorological Monographs, Boston
Meteorological Society of Japan, Tokyo, Journal
Meteorologické Zprávy, Prague
Météorologie, Paris
Meteorologiya i Gidrologiya, Moscow
Meteorologische Rundschau, Berlin
Meteorologiske Annaler, Oslo
Monthly Weather Review, Washington
Moscow. Gosudarstvennyy Okeanograficheskiy Institu Trudy
Moscow. Tsentral'naya Aerologicheskaya Observat riya, Trudy
Moscow. Tsentral'nyy Institut Prognozov, Trudy
Moscow Univ., Vestnik, Seria 3, Fizika Astronomiya
Moscow Univ., Vestnik, Seria 5, Geografiya
Musk-Ox, Saskatoon, Canada
Nal'chik. U.S.S.R. Vysokogornyy Geofizicheskiy I stitut, Trudy
Nature. London
Nature: Physical Science, London
Nordic Hydrology, Copenhagen
Oceanographical Magazine, Tokyo
Oceanographical Society of Japan, Tokyo, Journal
Oceanus, Woods Hole, MA.
Okeanologiya, Moscow
Pakistan Journal of Science, Lahore
Papers in Meteorology and Geophysics, Tokyo
Planetary and Space Science, Oxford
Poland. Państwowy Instytut Hydrologiczno-Meteor logiczny, Wiadomości Służby
Polarforschung, Munster, W. Germany
Pollution Atmosphérique, Paris
Problemy Arktiki i Antarktiki, Leningrad

Przegląd Geofizyczny, Warsaw
Pure and Applied Geophysics, Basel
Quebec (Province). Feuillet Météorologique
Radio Science, Washington
Recherche, Paris
Remote Sensing of Environment, N. Y.
Research/Development, Barrington, IL.
Reviews of Geophysics and Space Physics, Washington
Revue de Géographie Alpine, Grenoble
Rivista di Meteorologia Aeronautica, Rome
Royal Meteorological Society, Bracknell, Eng., Quarterly Journal
Royal Society of London, Phil. Trans., Ser. A.
Science, Washington
Sciences et Avenir, Paris
Science Forum, Toronto
Search, Sydney, Australia
Seewart, Hamburg
Solar Physics, Dordrecht, Holland
South Africa. Weather Bureau, Notos
South African Journal of Science, Johannesburg
Sovetskaya Antarkticheskaya Ekspeditsiya, Informatsionnyy Byulleten'
Sovetskaya Antarkticheskaya Ekspeditsiya, Trudy
Soviet Hydrology, Selected Papers, Washington
Studia Geophysica et Geodaetica, Prague
Tashkent. Sredneaziatskiy Nauchno-Issledovatel'skiy Gidrometeorologicheskiy Institut, Trudy
Tellus, Stockholm
Tiflis. Zakavkazskiy Nauchno-Issledovatel'skiy Gidrometeorologicheskiy Institut, Trudy
U.S.S.R. Gidrometeorologicheskiy Nauchno-Issledovatel'skiy Tsentr, Moscow, Trudy
Water, Air, and Soil Pollution, Dordrecht, Holland
Water Resources Research, Washington
Weather, London
Weatherwise, Boston
Wetter und Leben, Vienna
Zeitschrift fur Meteorologie, Berlin

AUTHOR INDEX

Note: In this index, author entries are arranged alphabetically and, under each author, the titles are arranged alphabetically by the first word (excluding articles) of the original title. Translated titles are placed in brackets after foreign language titles. Authors whose names begin with an article or preposition (van, de, di, le, la, etc.) are generally indexed under that article or preposition. Cross references indicate variations from that practice, or possible alternate entries. All titles are listed under the first author. Coauthors, if any, are mentioned after the title.

A

Aagaard, Knut
  Relationship between geostrophic and surface winds at weather ship M, 21.3–600
  Wind-driven transports in the Greenland and Norwegian seas, 21.12–757
Ångström, Anders
  Sveriges Klimat [Swedish climate], 21.8–505
Aarkrog, A.
  Environmental radioactivity in the Faroes in 1967 (*with* **Lippert, J.**), 21.12–339
Aarons, Jules
  Use of satellite beacons for meteorological research, 21.8–44
  See also **Strauss, F. M.**, 21.4–454; **Whitney, H. E.**, 21.9–189
Abakarov, M. I.
  Khezer denizinin sethinde bukharlanmanyn deiishilmesi ve onu mueiien eden amiller [Changes in Caspian Sea evaporation and causative factors], 21.7–524
Abal'ian, T. S.
  Allowance for flow formation for forecasting its distribution during the growing period (*with* **Mazurova, L. I.** and **Nikonorova, S. N.**) [Transl. from Russian], 2.9–1R
  Osobennosti raspredeleniia snezhnogo pokrova v gorakh po nabliudeniiam v opytnom basseĭne r. Varzob [Features of snow cover distribution in mountains on the basis of observations in the experimental basin of the Varzob River] (*with* **Kalachev, A. V.**), 21.3–667
Abashin, V. N.
  Polia oblachnosti i osadkov i tsiklonicheskikh oblastiakh nad Severnym Kazakhstanom [Cloudiness fields and precipitations in cyclonic regions over Northern Kazakhstan], 21.12–402
Abashina, E. V.
  K voprosu o metodike nabliudeniĭ i rascheta oslableniia i pogloshcheniia integral'noĭ radiatsii posevami iachmenia [Methods of observation and computation of the attenuation and absorption of integral radiation by young barley crops], 21.3–513
  Osobennosti geometricheskoĭ struktury posevov iachmenia [Peculiarities of the geometric structure of young barley crops] (*with* **Kozinets, D. V.**), 21.10–457
Abbas, B. M.
  Pakistan (*with* **Rehman, M. A.**), 21.11–95R
Abbas, M.
  Absorption of hydromagnetic waves in the ionosphere, 21.7–171
Abbas, M. A.
  Disintegration and electrification of charged water drops falling in an electric field (*with* **Latham, J.**), 21.1–621
  Electrofreezing of supercooled water drops (*with* **Latham, J.**), 21.5–571

Abbott, Charles E., *see* **Sartor, J. D.**, 21.2–369; 21.6–563
Abdel-Razaq, Ahmed Y.
  Solution to the surface runoff problem (*with* **Viessman, W., Jr.** and **Hernandez, J. W.**), 21.6–625
Abdumalikov, T. I.
  Analiz gradovykh iavlenii v Ferganskoi doline [The analysis of hail phenomena in the Fergansk Valley] (*with* **Dzhuraev, A. D.**), 21.9–335
Abdusamatov, H. I.
  On small-scale motions in the photosphere and chromosphere of the Sun (*with* **Krat, V. A.**), 21.10–646
Abel, N.
  Luftchemische Studien am Observatorium Izana (Teneriffa) [Aerochemical studies at the Izana Observatory (Tenerife)] (*with others*), 21.7–127
Abel, P. G.
  Remote measurement of horizontal temperature gradients in the atmosphere (*with* **Alishouse, J. C.**), 21.11–322
Abel, Robert B.
  Applied research at the National Science Foundation, 21.3–766
Abelson, Philip H.
  Long-term efforts to clean the environment, 21.10–739
Abhirama Reddy, C., *see* **Matsushita, S.**, 21.2–75
Abhyankar, K. D., *see* **Fymat, A. L.**, 21.4–140, 141
Abraham, Farid F.
  On the free energy of formation of droplets from the vapor, 21.8–354
Abrahams, Gerald E., *see* **Court, A.**, 21.4–224
Abramov, L. A., *see* **Van'ian, L. L.**, 21.12–311
Abramov, R. V.
  Meteorologicheskaia sluzhba v Respublike Bereg Slonovoĭ Kosti [Meteorological Service in the Ivory Coast Republic], 21.3–1
Abramova, M. M.
  Evaporation of soil water under drought conditions [Transl. from Russian], 21.5–551
Abramova, Iu. V., *see* **Dubrovskaia, F. I.**, 21.1–291
Abrosimov, I. K., *see* **Vostokova, E. A.**, 21.2–566
Abshaev, M. T.
  Radiolokatsionnye metody izmereniia mikrostrukturnykh kharakteristik oblakov [Radar methods for measuring the microstructure characteristics of clouds], 21.1–579
  Raschety kharakteristik rasseianiia i oslableniia radiolokatsionnogo izlucheniia gradinami s poverkhnostnym sloem vody [Calculation of the characteristics of scattering and attenuation of radar waves by hail with a surface layer of water and water-ice mixture] (*with* **Rozenberg, V. I.**), 21.11–38
  Rasseianie i oslabenie radioizlucheniia santimetrovogo diapazona gradom [Scattering and absorption of the centimeter radiation by hail] (*with* **Rozenberg, V. I.**) [and English transl.], 21.5–55
  Veroiatnostno-statisticheskii metod indikatsii gradovykh oblakov [A statistical probability method of hail cloud indication] (*with others*), 21.11–39
Aburakawa, Hideaki, *see* **Magono, C.**, 21.2–267
Abur-Robb, M. F. K.
  Combined worldwide neutral air wind and electrodynamic drift effects on the F2-layer, 21.3–368
Abuziarov, Z. K.
  Raschet optimal'nykh puteĭ plavaniia sudov v okeane [Computation of the most favorable sea routes], 21.1–258
Accerboni, Ezio, *see* **Mosetti, Ferruccio**, 21.10–793
Acharya, C. L.
  Vapor losses through soil mulch at different wind velocities (*with* **Prihar, S. S.**), 21.5–552
Achtemeier, Gary L.
  On the correlation between severe weather and the trajectories of deviate storms over the midwest on August 25, 1965, 21.12–392
Ackefors, Hans
  Construction and performance of a sensitive light meter for underwater use (*with* **Ahnström, G.** and **Rosén, C. G.**), 21.5–786
Ackerman, Bernice
  Rate of dissipation of turbulent energy in cloudy air, 21.1–183
  See also **Clayton, W. H.**, 21.6–7
Ackermann, Paul
  Neue Radiosondenstation Payerne der Schweizerischen Meteorologischen Zen-

tralanstalt [New radiosounding station of the Swiss Central Meteorological Institute at Payerne], 21.3–94

Acton, Loren W.
Observations of energetic X-rays from quiescent solar active regions (*with* **Fisher, P. C.**), 21.2–129

Aczél, Etelka
A Keleteurópai országok egységes mágneses szintjenek problémái [Problems of the uniform geomagnetic level of the Eastern European countries] (*with* **Stomfai, R.**), 21.5–726

Adak, Fehmi, *see* **Ozal, Korkut,** 21.7–791

Adam, John R.
Collision and subsequent emission of a small droplet from a highly charged large drop (*with* **Ochs, H. T., III**), 21.2–363

Adam, M. G.
Magnetic field observations for the sunspot C.M.P., September 19, 1966, 21.11–624

Adamenko, V. N.
Otsenka usloviĭ prebyvaniia cheloveka na otkrytom vozdukhe zimoĭ s uchetom mikroklimata zastroĭki [Evaluation of conditions for man's stay in the open air during winter by considering the microclimate of a building project] (*with* **Khairullin, K. Sh.**), 21.7–687
Rezul'taty nabliudeniĭ radiatsii, postupaiushcheĭ na steny zdaniĭ [Results of observations of radiation incident of the walls of buildings] (*with* **Khairullin, K. Sh.**), 21.7–316
Teploprovodnost' pochv raznogo mekhanicheskogo sostava po dannym eksperimental'nykh opredeleniĭ v Estonskoĭ SSR [Thermal conductivity of soils of different mechanical constitution according to experimental data attained in the Estonian S.S.R.] (*with* **Int, L. E.**), 21.6–459
Teplovoĭ balans i vozmozhnosti melioratsii termicheskogo rezhima pochvy [Thermal balance and the possibility of improving the thermal regime of the soil], 21.6–467

Adams, G. W.
Solar proton monitoring system (*with* **Megill, L. R.**), 21.7–389
See also **Juday, Richard D.,** 21.7–411

Adams, J. E.
Antennas for an ocean buoy HF telemetry station, 21.3–779

Adams, J. M.
Anaglyph layer charts (*with* **Malone, C.**), 21.3–218

Adams, John B.
Mars: interpretation of spectral reflectivity of light and dark regions (*with* **McCord, Thomas B.**), 21.9–512

Adams, Mary S., *see* **Grantham, William D.,** 21.7–474

Adams, Robert M., *see* **Olsen, Wiley S.,** 21.12–746

Adams, William Mansfield
Prediction of tsunami inundation from current real-time seismic data, 21.4–759

Adamy, László
Nekotorye osobennosti statisticheskoĭ struktury polia geopotentsiala v raĭone Karpat [Some peculiarities of the statistical structure of the geopotential field in the Carpathian region], 21.6–474
See also **Mezaros, E.,** 21.12–503

Adderley, E. E.
Change in rainfall gradient in Western Victoria and its effect on the assessment of the 1966 cloud-seeding, 21.8–123

Addicott, W. D.
Tertiary climatic change in the marginal northeastern Pacific Ocean, 21.7–674

Addison, J. R.
Electrical properties of saline ice, 21.4–619

Adelaide, South Australia. Univ. Waite Agr. Research Inst.
Biennial Report of the Institute, 1966–1967, 21.3–701

Adelfang, Stanley I.
Measurements of atmospheric turbulence a few meters above the sea surface with a three component thrust anemometer, 21.2–226

Adem, Julian
Long-range numerical prediction with a time-averaged thermodynamic model, 21.5–156
Parametric method for computing the mean water budget of the atmosphere, 21.5–553

Adey, A. H., *see* **Li, K.,** 21.6–176

Aditya, P. K.
Moisture measurement by neutron moderation (*with* **Batra, A. K.**), 21.3–208
See also **Puri, R. K.,** 21.3–541

Admirat, P., *see* **Soulage, G.,** 21.7–124

Adolphson, D. G.
Temperature variations of deep flowing wells in South Dakota (*with* **LeRoux, E. F.**), 21.2–557

Adolphson, Donald G., *see* **Ellis, M. J.**, 21.1–767

Adrian, Iulian, *see* **Beşleagă, N.**, 21.3–228

Adrianov, S. N.
Meteorologicheskoe obosnovanie konstruktsiĭ vetrolomnykh drevesnykh polos dlia stepnykh raĭonov Zapadnoĭ Sibiri i Severo-Vostochnogo Kazakhstana [Meteorological basis for the construction of shelter belts in the steppe regions of western Siberia and northeastern Kazakhstan], 21.3–623

Advances in Environmental Science and Technology, **Vol. 1**, 21.12–225

Advances in Geophysics, N. Y., Vol. 13, 21.3–2

Advances in Hydroscience, N. Y., Vol. 5, 1969, 21.4–500

Aeby, Jack W., *see* **Kennedy, W. R.**, 21.3–404

Aerometric Research, Inc., Santa Barbara Airport, Goleta, Calif., *see* **Hovind, E. L.**, 21.1–241

Aerts, E.
Het Belgisch Instituut voor Ruimteaëronomie [The Belgian Institute of Space Aeronomy], 21.5–1

Afanas'ev, G. T.
Nekotorye osobennosti letnikh stratosfernykh vozdushnykh potokov po dannym aerostatov [Certain peculiarities of summer stratospheric air currents based on data from aerostats], 21.12–483

Afanas'eva, R. F.
Nekotorye polazateli teplovogo sostoianiia cheloveka pri okhlazhdenii razlichnoĭ intensivnosti [Certain indices of the thermal state of man at different intensity cooling] (*with* **Krichagin, V. I.** and **Okuneva, S. G.**), 21.9–241
Teplozashchitnye svoĭstva zimneĭ bytovoĭ odezhdy pri razlichnoĭ skorosti vetra i temperature okruzhaiushchego vozdukha [Thermal insulating properties of winter clothing and the thermal state of man at different wind velocities and temperature of the atmosphere] (*with* **Gorshkova, R. I.**) [and English transl.], 21.4–416

Afashagov, M. S.
O vnutrennikh volnakh v neodnorodnoĭ atmosfere [Internal waves in an inhomogeneous atmosphere] [and English transl.], 21.3–420

Afinogenov, L. P.
O nadezhnosti poelementnogo rezarvir vaniia po otnosheniiu k otkazam ti obryva i korotkogo zamykaniia [Rel ability of single element stand-bys wi respect to the type of interruption ar short-circuit failures], 21.10–83
Obrabotka dannykh vlazhnosti avtoma cheskimi meteostantsiiami [Processi of humidity data by automatic meteor logical stations] (*with* **Grushin, S.** and **Reĭniuk, V. I.**), 21.8–25
Privedenie davleniia k urovniu moria p ispol'zovanii avtomaticheskikh [T pressure reduced to sea level for use automatic meteorological stations 21.8–20

Afonina, R. G.
Granitsa zakhvachennykh elektronov E ≥ 280 kev i polozhenie tokovykh el ktrostruĭ v ionosfere [Boundary of ca tive electrons with E ≥ 280 keV and t position of electrojet currents in t ionosphere] (*with* **Fel'dshteĭn, Ia. I.** [and English transl.], 21.2–130

Aframeeva, I. A.
Metodika kosvennogo rascheta prodo zhitel'nosti osadkov [Methods for t indirect calculation of the duration precipitation], 21.7–604

Agafonova, S. M.
Perenos snega pri meteliakh v Gor'kom Arzamase [Snow transfer during snow storms in Gorki and Arzamas], 21.2–27

Agalakov, V. S.
Sputniki rabotaiut [The satellites are fun tioning], 21.1–146

Agarwal, O. P.
Radar study of line-type thunderstor over Bombay airport and surroundin (*with* **Krishnamurty, G.**), 21.4–113

Agee, Ernest Mason
Role of inflectional instability in the con pressible heterogeneous atmosphe 21.5–368
Tornado project activities at Purdue Un versity, 21.7–297

Agence pour la Securité de la Navigatio Aerienne en Afrique et a Madagasca Direction de l'Exploitation Météor logique
Résumé Mensuel d'Observations Météor logiques: Annexe Pluviometrique, Ja 1968 [Monthly review of meteorologic observations: rainfall supplement, Ja 1968], 21.2–258

Résumé Mensuel des Observations Météorologiques au Sol, Jan. 1968 [Monthly review of meteorological observations at the ground, Jan. 1968], 21.3–103

Agerstrand, T.
Groundwater draft from Earth layers, 21.4–532

Agerter, Sharlene R., *see* **Glock, W. S.**, 21.1–55

Ageshin, P. N.
Protonnye vspyshki 7 iiulia, 2 sentiabria 1966 g. i 28 ianvaria 1967 g. [The proton bursts of July 7, September 2, 1966 and January 28, 1967] (*with others*), 21.8–256

Aggson, T. L.
Probe measurements of electric fields in space, 21.8–597

Agi, Michael
Wetter und Klima im östlichen Mittelmeergebiet unter besonderer Berücksichtigung des Zyperntiefs [Weather and climate in the eastern Mediterranean region with particular consideration of the Cyprus lows], 21.2–95

Agrawal, P. C.
Sudden changes in the intensity of high energy X-rays from SCO X-1 (*with others*), 21.10–588

Agroclimatological Methods: Proceedings of the Reading Symposium, Univ. of Reading, July 23–30, 1966, 21.2–315

Aguerrevere, Francisco G.
Venezuela, 21.11–95R

Agyei, E. K., *see* **Schwarcz, H. P.**, 21.4–687

Ahlgren, Clifford E.
Eighteen years of weather in the boundary waters canoe area, Quetico-Superior Wilderness Research Center, 21.9–372

Ahlquist, N. C.
Measurement of the wavelength dependence of atmospheric extinction due to scatter (*with* **Charlson, R. J.**), 21.11–491
See also **Charlson, R. J.**, 21.7–137; 21.12–495; **Pueschel, R. F.**, 21.6–182

Ahmad, Mohammed Shafi
Large-scale wind motion and turbulence in the upper atmosphere from rocket experiments, 21.7–470

Ahmed, M.
N_2 Vegard-Kaplan band system in aurora: rotational temperatures and vibrational populations, 21.11–529

Ahnström, Gunnar, *see* **Ackefors, H.**, 21.5–786

Ahrens, C. D., *see* **Miller, A.**, 21.4–39

Ahrens, D.
Air trajectories in the San Francisco Bay area (*with* **Miller, A.**), 21.11–334

Ahrens, Merlin R., *see* **Friedman, Howard A.**, 21.7–13

Ahuja, P.
Estimation of design flood discharges especially for river valley project in India (*with* **Shenoy, R.**), 21.7–784

Ahuja, P. R.
Problems of semiarid zones, 21.11–667

Aida, Isamu
On the edge waves of the Iturup tsunami, 21.2–788

Aĭdarov, I. P.
Issledovanie summarnogo ispareniia pukhlykh solonchakov no opytnom uchastke v Tadzhikskoĭ SSR [Studying evapotranspiration from sulfatic saline soil in an experimental plot in the Tadzhik S.S.R.], 21.5–554

Aĭzen, A. M.
Analiz izmenchivosti solnechnoĭ radiatsii s pomoshch'iu statisticheskoĭ teorii vybrosov [Analysis of the variation of solar radiation with the aid of the statistical theory of rejections] (*with* **Tsipeniuk, A. L.**), 21.6–345

Akademiia Nauk SSSR.
Izvestiya. Atmospheric and Oceanic Physics, Vol. 6, No. 1, Jan. 1970. [transl. from Russian], 21.11–1R

Akademiia Nauk SSSR. Inst. Fiziki i Astronomii, *see* **Mezhduvedomstvennoe Soveshchanie po Aktinometrii i Optike Atmosfery, 6th, Tartu, June 13–18, 1966**, 21.1–29

Akademiia Nauk SSR. Institut Geografii.
Prirodnye usloviia i osobennosti khoziaistvennogo osvoeniia severnykh raionov Zapadnoi Sibiri [Natural conditions and characteristics of the economic exploitation of the northern regions of Western Siberia], 21.12–1
Problema Aral'skogo moria [Problems of the Aral Sea], 21.9–678
Vodnyĭ balans SSSR i ego preobrazovanie [Water balance of the U.S.S.R. and its transformation], 21.11–355

Akademiia Nauk SSSR. Institut Okeanologii.
Methods of oceanographic research. [Transl. from Russian], 21.10–1R

Akademiia Nauk SSSR. Mezhduvedomstvennaia Komissiia po Izucheniiu Antarktiki.
Antarctica: Commission Reports, 1962. [Transl. from Russian], 21.11–41R

Akademiia Nauk SSSR. Mezhduvedomstvennyĭ Geofizicheskiĭ Komitet.
Aurorae and airglow: results of the research on the International Geophysical Projects [Transl. from Russian], 21.12–1R
Solar activity [Transl. from Russian], 21.3–727

Akademiia Nauk SSSR. Okeanograficheskaia Komissiia
Gidrofizicheskie i gidrokhimicheskie issledovaniia v Chernom more [Hydrophysical and hydrochemical investigations in the Black Sea], 21.3–739

Akademiia Nauk Ukrainskoĭ SSR, Kiev.
Physics of the Moon and planets [Transl. from Russian], 21.9–2R

Akaeva, L. A., *see* **Zalikhanov, M. Ch.**, 21.9–332

Akai, Koichi
Underground flow control by means of a water-curtain, 21.11–713

Akamatsu, Hideo
Cruise report of CSK survey by JMA in 1967 (*with* **Sawara, T.**), 21.3–775

Akamatsu, Hideo
Improved 1000 m bathythermograph (*with* **Sawara, T.** and **Iwamiya, M.**), 21.4–652

Akasofu, S. I.
Absence of the hydrogen emission (H) in the westward traveling surge (*with others*), 21.11–510
Auroral observations at the South Pole, 21.10–529
Geomagnetic and cosmic-ray storm of May 25/26, 1967 (*with others*), 21.12–433
Interdisciplinary study of selected events, 21.5–673
Nonuniform growth of the ring current belt (*with* **Meng, C. I.**), 21.2–131
Soviet geomagnetism, aeronomy and solar-terrestrial physics (*with* **Wilcox, John M.**), 21.9–145
See also **Buchau, Jurgen**, 21.10–502; **Eather, R. H.**, 21.9–444; **Harang, L.**, 21.10–538

Akhmetov, M. S.
Aeroklimaticheskie zakonomernosti raspredeleniia nekotorykh kharakteristik vetra v nizhnem trekhkilometrovom sloe na Zapadnoĭ Sibiriu (k severu ot 54° S Sh. [Aeroclimatic relationships for th distribution of some wind characteristic in the lower 3-km layer over Wester Siberia (North of 54° N.E.)], 21.7–48
See also **Rybakov, E. T.**, 21.12–41

Akin'shin, V. V.
Reshenie odnoĭ obratnoĭ zadachi pri pomoshchi analogovoĭ vychislitel'noĭ mash ny [Solution of a reverse problem b means of an analog computer] (*wit* **Borshchevskiĭ, E. N.**), 21.2–533

Akiyama, Takako, *see* **Matsumoto, S** 21.6–590; 21.8–410

Akiyama, Tsutomu
Carbon dioxide in the atmosphere and i sea water in the adjacent seas of Japa 21.7–129
Distribution of dissolved oxygen an phosphate phosphorus in the adjacen Seas of Japan, 21.5–791
On the distributions of pH *in situ* an total alkalinity in the western North Pacific Ocean (*with others*), 21.3–789
Partial pressure of carbon dioxide in th atmosphere and in sea water over th western North Pacific Ocean, 21.5–219

Akron, Ohio. Univ. Dept. of Electrica Eng., *see* **Huss, P. O.**, 21.6–516

Aksenov, A. N.
Opredelenie konvektivnoĭ energii v atmosfere Iupitera [The determination of th convective energy in Jupiter's atmosphere], 21.10–623
Tentative photometry of Jupiter's atmospheric activity, 21.11–579

Aksenov, M. Ia.
Zabor prob l'doobrazuiushchikh aerozole dlia elektronno-mikroskopicheskikh issledovaniĭ [Sampling of ice formin aerosols for electron-microscopic investigations], 21.6–103

Akulinicheva, A. A.
Metodika opredeleniia uporiadochennykh konvektivnykh vertikal'nykh skoroste po pliuviograficheskim dannym [Metho of determining ordered and convectiv vertical velocities with pluviographi data], 21.12–393
Parametry dozhdei nad raionami Povolzh'ia [Rain parameters over region of Povolzh'e], 21.12–394
See also **Orlova, E. M.**, 21.12–176

Akul'shina, L. G.
Otsenka oshibok izmereniia kontsentratsii i razmera kapel' tumana priborom "Aelita" [The evaluation of errors in measuring the concentration and dimension of fog droplets with the instrument "Aelita"] (*with others*), 21.3–203

Alabushev, V. A.
Improved method for determining the bulk density and moisture content of soils (*with* **Grin'ko, N. I.** and **Bezruchko, I. N.**), 21.8–481

Alaka, M. A.
Numerical experiments pertinent to the design of optimum aerological networks (*with* **Lewis, F.**), 21.5–157

Alam, Abu M. Z.
Friction factors for flow in sand-bed channels (*with* **Kennedy, J. F.**), 21.5–768

Albee, Paul R., *see* **Bates, Howard F.**, 21.7–174

Albernhe, F.
Détermination du spectre et du flux de neutrons atmosphériques rapides en période de soleil calme et à une latitude géomagnétique de 46° nord [Determination of the spectrum and flux of fast atmospheric neutrons during a quiet sun period and at a geomagnetic latitude of 46°N] (*with* **Talon, R.**), 21.10–289

Albero Sanchis, Vicente
Heladas en la zone naranjera de Levante. [Frost in the eastern orange producing zone], 21.1–256

Albert, Edward G.
Characteristics of direct scanning radiometer data, 21.3–145

Albert, M. R.
Satellites et navigation dans l'océan Indien [Satellites and navigation in the Indian Ocean], 21.5–420

Alberty, Ronnie L.
Analysis of a severe local storm using isentropic trajectories (*with* **Van Sickle, K. L.**), 21.11–262
Proposed mechanism for cumulonimbus persistence in the presence of strong vertical shear, 21.5–593

Alcayde, Denis
Calcul des emissions lumineuses associées aux P.C.A. dans les bandes 3914 Å et 5577 Å [Calculation of luminous emissions associated with P.C.A. (Polar Cap Absorption) at 3914 and 5577 Å], 21.7–348

Aldaz, Luis
Flux measurements of atmospheric ozone over land and water, 21.6–165
See also **Regener, Victor H.**, 21.7–487; 21.12–220

Aldon, Earl F.
Alkali sacaton seedling survival and early growth under temperature and moisture stress, 21.2–401

Aleksandrov, A. S.
Kharateristika tropopauzy nad Mirnym v 1965 g. [Characteristics of the tropopause over Mirny in 1965], 21.4–49

Aleksandrov, E. L.
Metod otsenki velichiny peresyshcheniia voznikaiushchego pri obrazovanii kapel' nozhidkoi fazy v oblakakh [A method for calculating the magnitude of supersaturation during the formation of the droplet-liquid phase in clouds], (*with* **Sedunov, Iu. S.**), 21.12–527

Aleksandrov, I. M.
Karstoobrazovanie na Artemovskom mestorozhdenii kamennoĭ soli [Karst formations on the Artemovsk salt deposit], 21.11–706

Aleksandrova, L. V.
Opredelenie skorosti i napravleniia dvizhenii krupnykh obrazovanii Es metodom VNZ [Determination of velocity and direction of movement of large Es formations by the plan position indicator sounding method], 21.12–289

Alekseev, G. A.
Ob"ektivnyĭ metod vyravnivaniia i normalizatsii korreliatsionnykh sviazeĭ [Objective method for flattening and normalization of correlation relations], 21.10–104
Objective statistical methods of computation and generalization of the parameters of maximum rainfall runoff, 21.6–610

Alekseev, I. A.
Apparatura i metodika radioastronomicheskikh izmereniĭ skorosti solnechnogo vetra [A method and instrumentation for the radio astronomical measurement of the solar wind velocity] (*with others*), 21.6–395

Alekseev, V. A.
Poliarizatsionnye kharakteristiki radioizlucheniia Luny pri uchete usredniaiushchego deĭstviia diagrammy napravlennosti nozhevogo tipa [Polarization characteristics of radio emission of the Moon taking into account the averaging

effect of knife-type antenna pattern] (*with* **Krotikov, V. D.**) [and English transl.], 21.4–457

Alekseev, V. R.
Peshchernye l'dy Iuzhnoi Sibiri [Cave ice of South Siberia] (*with* **Beliak, V. I.**), 21.12–724

Alekseev, V. S.
Characteristics of subsurface waters having a tendency to precipitate in the filter zones of wells [Transl. from Russian], 21.4–550

Alekseeva, I. A.
Vnutritropicheskaia zona konvergentsii v vostochnoĭ chasti Tikhogo okeana po nabliudeniiam s meteorologicheskikh sputnikov Zemli [Intertropical convergence zone in the eastern part of the Pacific Ocean from meteorological satellite observations], 21.3–100

Alekseeva, L. M.
Rol' mekhanizma dinamo, sviazannogo s melkomasshtabnym dvizheniem neĭtralov, v sozdanii magnitnykh vozmushcheniĭ i ionosfernykh neodnorodnosteĭ [The role of the mechanism dynamo connected with a small-scaled movement of neutrals in creating magnetic disturbances and ionospheric irregularities] (*with* **Vardanian, Iu. S.** and **Tverskoĭ, B. A.**) [and English transl.], 21.5–336

Aleshin, V. I.
Sutochnyi khod temperatury v aerozol'nobazovoi atmosfere i v grunte Marsa [Diurnal temperature variation in the aerosol-gaseous atmosphere and the Martian ground] (*with* **Fedoseeva, T. N.**), 21.8–744
Teplovoi rezhim v raione Iuzhnogo poliusa Marsa [Thermal conditions in the region of the South Pole of Mars] (*with* **Shchuko, O. B.**), 21.12–606

Aleshina, A. M., *see* **Sevalkina, N. A.**, 21.9–408

Alexander, G. N.
Application of probability to spillway design flood estimation, 21.9–589
Equivalent distributions with application to rainfall as an upper bound to flood distributions (*with* **Karoly, A.** and **Susts, A. B.**), 21.8–405
Equivalent distributions with application to rainfall as an upper bound to flood distributions (Pt. 2) (*with* **Karoly, A.** and **Susts, A. B.**), 21.8–406

Alexander, J. K.
Type III radio bursts in the outer corona (*with* **Malitson, H. H.** and **Stone, R. G.**), 21.4–440
See also **Stone, R. G.**, 21.3–378

Alexander, Lye T., *see* **Clawson, M.**, 21.6–840

Alexander, M.
Possible contamination of Earth by lunar or Martian life, 21.3–697

Alexander, R. M.
Satellite cloud pictures, 21.2–20

Alfonso-Faus, Antonio
Solar wind and its interaction with planetary bodies, 21.1–1

Alfvén, H.
Electric currents and solar flares, 21.1–696
Jet streams in space, 21.9–466
Two alternatives for the history of the Moon (*with* **Arrhenius, G.**), 21.4–473

Ali, Dolores E.
Measurements of negative ion production in atmospheric gases, 21.4–380

Alianchikova, G. N.
Nekotorye pogreshnosti aspiratsionnogo psikhrometra pri nizkikh znacheniiakh otnositel'noĭ vlazhnosti [Some errors of an aspiration psychrometer at low relative himidity values] (*with* **Doronin, M. A.**), 21.5–127

Alibegova, Zh. D.
Certain characteristics of the structure of the intensity field of precipitation falling in steppe and desert regions [Transl. from Russian], 21.11–2R
Structure of precipitation fields in the Ukraine [Transl. from Russian], 21.9–3R

Alishouse, J. C., *see* **Abel, P. G.**, 21.11–322

Alisov, B. P.
Advektivnye tipy pogody v Ialte v zimnen i letnem sezonakh [Advective types of weather in Yalta in winter and summer periods], 21.2–337
Klimat SSSR. Dopushcheno Ministerstom vysshego i srednego spetsial'nogo obrazovaniia SSSR v kachestve uchebnika dlia studentov geograficheskikh spetsial'nosteĭ universitetov i pedagogicheskikh institutov [Climate of the U.S.S.R. Released by the Ministry of Higher and Mid-level Special Education of the U.S.S.R. as a textbook for students in the geographic disciplines in universities and pedagogic institutes], 21.11–448

Tipy pogody na Rizhskom vzmor'e v letnem sezone [Types of weather at the Riga seaside in the summer season], 21.7–699

Umerenno-teplaia pogoda letom v podmoskov'e [Moderately-warm weather in summer in Moscow environs], 21.8–520

Alissandrakis, C. E., *see* **Macris, C. J.**, 21.10–662

Alkezweeny, A. J.

Freezing of supercooled water droplets due to collision, 21.7–555

Preliminary results on the nucleation of AgI, 21.6–554

Allan, H. R.

Radio pulse production in extensive air showers (*with others*), 21.3–533

Allee, Paul A.

Measurements of ice nuclei size distribution with an aerosol spectrometer (*with others*), 21.12–509

See also **Van Valin, Charles C.**, 21.8–122

Allegri, G.

Orientamenti marittimi di navigazione meteorologica [Seafaring applicabilities of meteorological navigation], 21.10–2R

Allen, Eric R.

On the origin of metal atomic ions associated with sporadic-E layers, 21.10–150

See also **Cadle, R. D.**, 21.6–163

Allen, Herbert E.

Determination of phosphate in natural waters by activation analysis of tungstophosphoric acid (*with* **Hahn, R. B.**), 21.11–763

Allen, James A., *see* **Drake, Jerry F., Sr.**, 21.8–267

Allen, John T., *see* **Harlin, B. W.**, 21.2–289

Allen, L. H.

Lunar sunset phenomenon, 21.6–694

Allen, Leland C.

A theory of anomalous water (*with* **Kollman, Peter A.**), 21.10–694

Allen, Louis B., *see* **Bolander, Richard W.**, 21.12–493

Allen, Richard S.

Application of the statistics of ionospheric scintillation to VHF and UHF systems, 21.3–369

Allied Research Associates, Inc.

Applications technology satellites meteorological data catalog, Vol. 3, 21.3–122

Applications technology satellites meteorological data catalog, Vol. 4, Jan. 1–July 31, 1969 [for ATS-1 and ATS-4], 21.11–54R

Nimbus III data catalog, Vol. 1, Pt. 1, April 14–May 31, 1969, 21.9–155R

Nimbus III data catalog, Vol. 1, Pt. 2. Medium resolution infrared radiometer pictorial data, April 14–May 31, 1969. Data orbits 112 to 639, 21.9–157R

Nimbus III data catalog, Vol. 2, June 1969. Data orbits 640-1041, 21.9–156R

See also **Barnes, J. C.**, 21.3–34; **Chang, D. T.**, 21.5–414; **Merritt, E. S.**, 21.5–419.

Allison, A. C., *see* **Dalgarno, A.**, 21.5–703; 21.9–497

Allison, Lewis J., *see* **Warnecke, Guenter**, 21.8–51

Allison, Stephen V.

Simulation of wind effects on sprinkler performance (*with* **Hesse, Victor L.**), 21.7–500

Allkofer, O. C.

Cosmic rays latitude survey at solar minimum (*with others*), 21.7–390

Allman, David W., *see* **Williams, R. E.**, 21.4–566

Allred, E. R., *see* **Manson, P. W.**, 21.4–259

Al'pert, Ia. L.

On the local and integral electron density of the ionosphere measured by means of coherent radio waves emitted from artificial earth satellites, Pt. 1 (*with* **Sinelnikov, V. M.**), 21.1–668

O rezul'tatakh issledovaniĭ lokal'noĭ i intergral'noĭ elektronnoĭ kontsentratsii ionsofery s pomoshch'iu kogerentnykh radiovoln, izluchaemykh s ISZ, I [The results of investigation of local and integral electron concentration of the ionosphere by means of coherent radio waves radiated from satellite, Pt. 1] (*with* **Sinel'nikov, V. M.**), 21.4–60

Alperov, A. M., *see* **Marov, M. Ia.**, 21.5–317

Al'perovich, L. S.

Geomagnitnye pul'satsii s maksimumom intensivnosti v srednikh shirotakh [Geomagnetic pulsations with the intensity maximum in middle latitudes] (*with others*) [and English transl.], 21.5–738

Al Rasheed, Abdulla D.

Kuwait, 21.11–95R

Altai, N. N.

Analiticheskii sposob rascheta graduirovochnoi tablitsy dlia anemometrov [An analytical method of calculating a calibration table for anemometers], 21.8–62

Alter, Amos J.

Water supply in cold regions, 21.10–720

Al'tgauzen, N. M.
K teorii rasprostraneniia elektromagnitnykh voln v sloistykh anizotropnykh sredakh [The theory of electromagnetic waves propagation in the layered anisotropic media], 21.8–698

Al'tman, E. N.
Osobennosti termicheskikh usloviĭ na Chernom more v period MGG [Peculiarities of thermal conditions in the Black Sea during the International Geophysical Year] (*with* **Il'in, Iu. V.** and **Kropachev, L. K.**), 21.2–706

Altschuler, Edward E.
Tropospheric effects on Earth-to-space propagation at millimeter wavelengths, 21.12–68

Altschuler, Martin D.
Concerning the development of the Evershed motion in sunspots (*with* **Nakagawa, Yoshinari** and **Lilliequist, Carl G.**), 21.1–691
See also **Newkirk, G.**, 21.2–502

Altshuller, A. P.
Photochemical reactivities of aromatic hydrocarbon-nitrogen oxide and related systems (*with others*), 21.12–226

Alurkar, S. K.
Flare-time sudden enhancements of low frequency field strength and associated meter wave solar radio bursts (*with* **Bhonsle, R. V.**), 21.11–550

Amalfiesei, R., *see* **Beșleaga, N.**, 21.5–158

Ambach, W.
Altitude effect on the isotopic composition of precipitation and glacier ice in the Alps (*with others*), 21.8–422
Ein Beitrag zur Kenntnis des Wärmehaushaltes des Grönländischen Inlandeises [Contribution to knowledge of the heat budget of the Greenland Ice Cap], 21.10–776
Studies on vertical total-beta-activity profiles of fission products in the accumulation area of the Stubacher Sonnblickkees, Hohe Tauern, Salzburg, Austria (*with others*), 21.8–423
Tritium profiles in two firn cores from Alpine glaciers and tritium content in precipitation in the Alpine area (*with* **Eisner, H.** and **Sauzay, G.**), 21.8–424

Ambrózy, Pál
Időjárási térképek továbbítása digitalis formaban [Transmission of weather maps in digital form], 21.7–73

Vychislenie podvetrennykh voln v raĭo Karpatskikh gor [Calculation of l waves in the area of the Carpathians 21.6–524

American Astronautical Society, 13th Ar nual Meeting, Dallas, May 1–3, 1967
Commercial utilization of space: based o Proceedings of the Meeting, 21.7–738

American Chemical Society
Cleaning our environment, 21.5–234

American Geophysical Union, EOS Transactions
Man-made auroral rays, 21.11–519

American Institute of Chemical Engineer
ALChE panel assesses effect of 1967 A Quality Act., 21.9–120

American Meteorological Society
Atmospheric sciences and the America Meteorological Society, 21.12–2
Congressional bills, 91st Congress, 21.5–

American Oceanography [Houston]
Fast-response oxygen sensor, 21.10–797
Hurricane, 21.10–247
No one wants a blue ocean, 21.10–788

American Public Health Associatio N. Y.
Guide to the appraisal and control of ai pollution, 21.9–121

American Science and Engineering, Inc.
see **O'Neil, R.**, 21.1–468

American Society of Mechanical Engineers, N. Y.
Transport phenomena in atmospheric an ecological systems, 21.7–769

Amerman, C. R., *see* **Jamieson, D. G.**, 21.6–749

Amigo, Alberto, *see* **Galmarini, Alfredo G.**, 21.8–522

Amin, Mutwaki A.
Khasm El Girba irrigation scheme: a new socio-economic project in the Sudan, 21.11–545

Amineva, V. Ia., *see* **Piotrovich, V. V.**, 21.4–615

Anand, S. P. S.
Equilibrium and stability of magnetopolytropes, 21.4–422

Ananthakrishnan, R.
Some salient features of the space-time variations of rainfall over India and neighbourhood, 21.12–532

Anapol'skaia, L. E.
Metodika otsenki temperaturno-vlashnostnogo rezhima naruzhnogo vozdukha [Method of evaluating the temperature

humidity regime of ambient air] (*with* **Mandel', D. G.**), 21.6–437
Raschetnye skorosti vetra na Kavkaze [Calculated wind speeds in the Caucasus] (*with* **Sukhishvili, E. V.**), 21.4–212
Raschetnye skorosti vetra v gorakh Altaia i Saian [Computed wind speeds in the Altai and Sayan Mountains] (*with* **Tiuktik, V. V.**), 21.4–215
Teplovoĭ rezhim zdaniĭ v razlichnykh klimaticheskikh usloviiakh [Thermal regime of a building in different climatic conditions] (*with* **Gandin, L. S.**), 21.6–422
Vetrovoĭ rezhim gornykh raĭonov Vostochnoĭ Sibiri, Dal'nego Vostoka, p-ova Kamchatka i o. Sakhalin [Wind regime of the mountain regions of Eastern Siberia, the Far East, Kamchatka Peninsula and Sakhalin Island] (*with* **Tiuktik, V. V.**), 21.4–216

Anastassiades, Michael
Mm wave outbursts of November 1 and 2, 1966, (*with* **Macris, Constantin**), 21.10–581
Propagation transhorizon au-dessus de la Méditerrannée Sud-Orientale (Mer de Libye) [Transhorizon propagation over the S.E. Mediterranean (Libyan Sea)] (*with* **Karapiperis, L. N.** and **Nassopoulos, A.**), 21.6–253

Andersen, Neil R., *see* **Banchero, Louis A.**, 21.8–824

Anderson, Albert D., *see* **Knudsen, William C.**, 21.10–606

Anderson, B. J.
Influence of methyl 2-cyanoacrylate monomer on the habit of ice crystals grown from the vapor (*with* **Sutkoff, J. D.** and **Hallett, J.**), 21.1–557

Anderson, D. V.
Horizon as an indicator of atmospheric stability over a lake, 21.6–272
Nocturnal heat loss of a lake and seasonal variation in its vertical thermal structure, 21.2–616

Anderson, E. W.
Economics of propagation surveys for tropospheric scatter systems, 21.9–129

Anderson, Frances Jean
Interaction between small water droplets and their liquid-vapor phase changes in strong electric fields, 21.7–541
Interactions of the thunderstorm with a conducting atmosphere (*with* **Freier, G. D.**), 21.10–496

Anderson, G. C.
Nitrate distribution in the subarctic Northeast Pacific Ocean (*with* **Parsons, T. R.** and **Stephens, K.**), 21.3–784
Subsurface chlorophyll maximum in the northeast Pacific Ocean, 21.2–725

Anderson, G. F.
Sunspots and magnetohydrodynamic flows (*with* **Menzel, D. H.**), 21.1–692

Anderson, Gail P.
Satellite observations of the vertical ozone distribution in the upper stratosphere (*with others*), 21.6–207

Anderson, H. R., *see* **Hudson, P. D.**, 21.2–143

Anderson, Henry W., *see* **Lull, Howard W.**, 21.8–797

Anderson, K. A.
Magnetospheric substorm, 21.11–511
Relation of energetic particles in the plasm sheet to the auroral zone, 21.8–257

Anderson, Margaret C.
Comparison of two theories of scattering of radiation in crops, 21.6–378
Interpreting the fraction of solar radiation available in forest, 21.12–420
Short wave radiation on inclined surfaces in model plant communities (*with* **Denmead, O. T.**), 21.7–317

Anderson, R. C.
Herbaceous response to canopy cover, light intensity and throughfall precipitation in conifer forests (*with* **Loucks, O. L.** and **Swain, A. M.**), 21.3–505
Spectra of Venus and Jupiter from 1800 to 3200 Å (*with others*), 21.5–706

Anderson, R. V.
Atmospheric electricity measurements at five locations in eastern North America (*with* **Trent, E. M.**), 21.3–689

Anderson, Ralph K.
Application of meteorological satellite data in analysis and forecasting (*with others*), 21.5–91
Use of satellite data in the tropics (*with* **Oliver, Vincent J.**), 21.7–43
See also **Oliver, V. J.**, 21.5–391

Andersson, Tage
Diurnal variation of precipitation frequency over Weather Ship *M*, 21.7–608
Diurnal variation of precipitation in Sweden, 21.7–609

Andrade, Marcello, *see* **Zaneveld, J. Ronald V.,** 21.9–713

Andreev, E. G.

O vertikal'nom profile temperatury v blizi granitsy razdela more-atmosfera [Vertical temperature profile at the sea-atmosphere interface] (*with others*) [and Enlgish transl.], 21.6–423

Andreev, V.

Neadiabaticheskoe podniatie individual'nykh vozdushnykh ob"emov v usloviiakh pripodniatoĭ temperaturnoĭ inversii v atmosfere [Nonadiabatic rising of individual air volumes under conditions of an elevated temperature inversion in the atmosphere], 21.10–346

Termichna konvektsiis v atmosferata s uvlichane na okolen vŭzdukh, razvivashta se v usloviiata na prizemna inversiia [Thermal convection in the atmosphere from the drawing in of surrounding air, which develops in conditions of a ground inversion] (*with* **Panchev, St.** and **Simeonov, P.**), 21.5–527

See also **Mamaenko, G. E.,** 21.1–173

Andreev, Vasil M.

Vertikalna skorost pri neadiabatna konvektsiia u usloviia na pripovdignata inversiia v atmosferata [Vertical velocity in the case of nonadiabatic convection under an elevated inversion in the atmosphere], 21.8–340

Andreeva, I. B.

Eksperimental'nye dannye ob obratnom rasseianii zvuka poverkhnosti'iu okeana [Experimental data on back scattering of sound by an ocean surface] [and English transl.], 21.4–665

Andreeva, L. A.

Izmerenie skorosti vetra i koeffitsienta diffuzii s pomoshch'iu iskusstvennykh svetiashchikhsia oblakov [Measurements of wind velocity and diffusion coefficient by means of artificial luminous clouds] (*with others*), 21.12–39

Opredelenie plotnosti atmosfery po nabliudeniiam za iskusstvennymi svetiashchimisia oblakami [Determination of the atmospheric density from observations of artificial luminous clouds] (*with* **Katasev, L. A.**), 20.5–40

See also **Portniagin, Iu. I.,** 21.5–39

Andreianov, V. G.

Ob issledovanii vliianiia fiziko-geograficheskikh faktorov na kharakteristiki rechnogo stoka [The study of the effect of physical and geographical factors
the characteristics of river discharg
21.5–767

Andrew, B. H.

Radio sources with flat spectra (*wi*
Kraus, J. D.), 21.7–745

See also **Kraus, J. D.,** 21.8–730

Andrew, R. H., *see* **Kilen, T. C.,** 21.8–41

Andrews, George F.

Sferics-to-radar data converter, 21.10–2

Solar radiation, a useful tool for rad
antenna orientation, 21.2–419

Andrews, James F.

Circulation and weather of 1969, 21.
240R

Weather and circulation of April 196
a warm month accompanied by seve
flooding in the Upper Midwest and
creased westerlies, 21.5–64

Weather and circulation of July 1969:
predominantly wet month, cool in t
north and warm in the south, 21.7–31

Andrews, M. K., *see* **Thomas, J. O.,** 21.
332

Andrews, Peter, *see* **Iltis, Hugh H.,** 21.
547

Andrews, W. R. H.

Combined aerial and shipboard upwellin
study in the Benguela Current (*wit*
Cram, D. L.), 21.6–843

Andrianov, N. S.

Oblique-scattering method for measurin
individual radiants and meteor velociti
21.11–560

Andrițoiu, N.

Bilanțul radiativ în cîteva puncte ale ter
toriului R. S. România [Radiative bal
ance at some points on the Territory o
the Socialist Republic of Rumania
(*with* **Ciocoiu, I.**), 21.3–491

Determinarea radiatiei solare pe suprafeț
verticale diferit orientate în scopu
urbanistice [Solar radiation assessme
on differently lit vertical construction
for the sake of urban utilities] (*wit*
Ciocoiu, I.), 21.5–436

Andrusenko, K. A.

Tipovye karty anomalii srednei mesia
chnoi temperatury vozdukha v severno
polusharii letom pri nekotorykh mesto-
polozheniiakh poliusa atmosfernoi tsir
kuliatsii [Type charts of the anomal
of mean monthly air temperature o
the Northern Hemisphere in summer a
several positions of the atmospheric circulation pole], 21.12–446

Anekeeva, L. A.
Ispol‘zovania dannykh ob oblachnosti poluchennykh s pomoshch’iu ISZ, v ob”ektivnom analize polia vetra [Using cloudiness data obtained from satellites, in objective wind field analysis], 21.3–253

Angell, J. K.
Biennial variation in springtime temperature and total ozone in extratropical latitudes [Comments by **E. Farkas**] and Reply (*with* **Korshover, J.**), 21.5–326
Brunt-Vaisala oscillations in the planetary boundary layer (*with* **Pack, D. H.** and **Delver, N.**), 21.4–243
Quasi-biennial, annual and semiannual zonal winds and temperature harmonic amplitudes and phases in the stratosphere and low mesosphere of the Northern Hemisphere (*with* **Korshover, J.**), 21.5–486
Quasi-biennial variations in the “centers of action” (*with others*), 21.11–260
See also **Herbert, G. A.**, 21.4–389; **Hoecker, W. H.**, 21.7–514; **Solot, S. B.**, 21.4–93

Angelov, A.
Detaĭlni prouchvaniia na klimata v Sofiĭsko s pomoshtta na statistichniia kriteriĭ ψ 2(n,t) [Detailed investigation of the climate of Sofia by using the statistical criterion ψ 2(n,t)] (*with* **Barov, V.**), 21.4–310

Angino, Ernest E.
Effects of suspended material on water quality (*with* **O’Brien, W. J.**), 21.2–592

Angoedi, Abdullah
Indonesia, 21.11–95R

Angola. Serviço Meteorólogico, Luanda
Boletim Meteorológico para a Agricultura [Meteorological Bulletin for Agriculture], 21.10–41

Angot, Michel
Variations de la production primaire aux environs de Nosy-Bé (Madagascar) en 1965 [Variations of the primary production of the environment of Nosy-Bé, Madagascar, in 1965], 21.1–744

Angreji, P. D., *see* **Ramanathan, K. R.**, 21.5–451

Anisimova, T. N.
Nepreryvnaia prodolzhitel’nost’ skorosteĭ vetra v usloviiakh ravninnoĭ territorii SSSR [Continuous wind speed duration in leveland areas of the U.S.S.R.], 21.1–505
Opyt raĭonirovaniia veroiatnosti bol’shikh skorosteĭ vetra i ikh nepreryvnoi prodolzhitel’nosti na ravninnoĭ territorii SSSR [Experience with the classification of the probability of high wind velocities and their uninterrupted duration over flatlands of the U.S.S.R.], 21.11–342

Annuaire du Canada, Ottawa
Climat de l’Arctique Canadien [Climate of the Canadian Arctic], 21.9–369

Annuaire Hydrologique de Belgique, Brussels, 1967, 21.1–130

Annuaire Hydrologique de Belgique, Brussels, 1968, 21.11–66R

Annual Review of Astronomy and Astrophysics, Palo Alto, Calif.
Vol. 7, 1969, 21.3–710

Annual Review of Fluid Mechanics, Palo Alto, Calif.
Vol. 1, 1969, 21.12–03
Vol. 2, 1970, 21.11–35R

Anosova, L. S.
K voprosu o vzaimosviazi drenazhnogo i rechnogo stoka [The problem of relationship between drainage and river runoff] (*with* **Shkinkis, Ts. N.**), 21.11–687

Antarctic Bibliography, Wash., D. C., 1951–1961, 21.10–62R
Vol. 3, 1968, 21.1–46

Anthes, Richard Allen
Diagnostic model of the tropical cyclone in isentropic coordinates, 21.11–266
Numerical experiments on ring convection and effect of variable resolution on cellular convection, 21.5–528

Antipova, E. G., *see* **Ginzburg, B. M.**, 21.2–628

Antonov, A. S., *see* **Iuskeselieva, L. G.**, 21.9–71

Antonov, V. S.
Ledobyĭ rezhim ust’evoĭ oblasti r. Leny v estestvennom i zaregulirovannom sostoianii [Natural and controlled ice in the mouth of Lena River], 21.4–623
O kolichestve i kharaktere osadkov v Kabardino-Balkarii [The amount and character of precipitation in the Kabardino-Balkar Autonomous Republic], (*with* **Zavertnev, M. P.**), 21.11–382
Vozmozhnaia prichina pul’satsiĭ vodoobmena mezhdu Severnym Ledovitym i Atlanticheskim okeanami [Possible cause of water exchange variations be-

tween the Arctic and Atlantic Oceans], 21.2–751
Zavisimost' mezhdu kompleksom radiolokatsionnykh kharakteristik oblakov i atmosfery i vidom vypadaiushchikh na zemliu osadkov [The relationship between a complex of radar characteristics of clouds and the atmosphere and the form of precipitation falling on the Earth] (*with* **Medialiev, Kh. Kh.**), 21.4–279
Antonova, L. A.
Diurnal temperature variations and vertical particle fluxes in the upper atmosphere (*with* **Ivanov-Kholodnyĭ, G. S.**), 21.6–455
Anufrieva, T. A.
Vliianie solnechnoĭ aktivnosti na poslezakhodnyĭ pik vysot ekvatorial'noĭ oblasti F [Influence of solar activity on the post-sunset peak of heights of the equatorial F-region] (*with* **Shapiro, V. S.**), 21.10–151
Anýž, F.
On some physico-chemical factors affecting the burning of pyrotechnics producing aerosol of silver iodide, 21.12–187
Anzer, U.
Stability analysis of the Kippenhahn–Schluter model of solar filaments, 21.12–637
Aoki, S., *see* **Kinosita, T.**, 21.8–461
Aota, Masaaki
Study of the variation of oceanographic condition northeast off Hokkaido in the Sea of Okhotsk, Pt. 1, 21.2–643
Apetroaei, St.
Metode de evaluare şi prognoză a umidităţii accesibile a solului în perioada de vegetaţie la culturile de grîu de toamnă şi porumb, II [Methods of assessing and predicting the available humidity in soil during the vegetative life of winter wheat and maize crops, Pt. 2] (*with others*), 21.3–291
Apidianakis, J. C., *see* **Magno, P. J.**, 21.12–335
Appleman, Herbert S.
Introduction to weather modification, 21.4–31
Operational dissipation of supercooled fog, 21.9–290
Second annual survey report on the Air Weather Service weather-modification program (FY 1969), 21.3–297
Use of jet aircraft engines to dissipat
warm fog (*with* **Coons, F. G., Jr.**
21.11–136
Arai, T.
Hydro-climatological study on the mid
winter runoff from the snowy regions i
Japan, 21.8–458
On the snow cover and snow-melting run
off in the Takinami River basin, Centra
Japan (*with* **Nishizawa, T.** and **Kotoda**
K.), 21.8–437
On the thermal structure of Tagokur
Reservoir, Pt. 1 (*with* **Horiuchi, S.**
21.11–740
On the thermal structure of the Tagokur
Reservoir, Pt. 2, 21.11–741
Arakawa, Hidetoshi
Climates of northern and eastern Asia
21.8–506
Arakawa, Akio
Numerical simulation of the general circulation of the atmosphere (*with* **Katayama, A.** and **Mintz, Y.**), 21.6–304
Arakawa, Shōichi
On the numerical experiments by th
method of characteristics of one-dimensional unsteady airflow over the mountain ridge (*with* **Oobayashi, T.**), 21.5–535
Arbuzova, V. N.
Issledovanie koeffitsientov rasseivanii
moshchnosti businkovykh termorezistorov v svobodnoĭ atmosfere [Investigation of the power dissipation coefficients of the bead thermistors in the free atmosphere] (*with others*), 21.5–112
Arctic Institute of North America, Montreal
The Arctic Basin, 21.10–69R
Arctic Bibliography, Vol. 14, 21.9–1
Study of technologies for reducing winter weather costs, 21.8–532
Ardeleanu-Timofei, Florica
Deversoarele cu funcţionare înecată şi problemele folosirii lor în scopuri debitmetrice [Submerged operating spillways and problems from their use to flowmetering], 21.5–762
Ardiia, M. M.
Vliianie vodno-vozdushnogo rezhima pochvy na rost, razvitie i urozhainost' kukuruzy [Influence of the water-air regime of the soil on the growth, development, and productivity of maize], 21.7–648

re, F. E.
O proniknovenii solnechnoĭ radiatsii v vodu [Penetration of solar radiation into water] (*with* **Tolstiakov, D. N.**), 21.6–373

rendt, P. R.
Comparison of the topside ionosphere during magnetic storms of various types, 21.8–158
Topside ionospheric structure at northern mid-latitudes after ground sunset in summer (*with* **Soicher, H.**), 21.8–159

rgentina. Servicio de Hidrografía Naval
Normas e instrucciones para la observación meteorológica en el mar [Guidelines for meteorological observations at sea], 21.8–18

riel', N. Z.
Otsenka iskazhenii i pogreshnostei rascheta spektrov po eksperimental'nym dannym [The evaluation of distortions and errors in calculating spectra from experimental data], 21.8–19

ristov, N. A.
Razvitie sinopticheskogo metoda dolgosrochnykh prognozov pogody shkoly B. P. Mul'tanovskogo za 50 let [Development of the synoptic method of long-range weather forecasting of the B. P. Mul'tanovskii School over a 50 year period] (*with* **Bliumina, L. I.**), 21.11–124

rizona. Land Dept.
Annual report on ground water in Arizona, Spring 1967 to Spring 1968, 21.4–533

rizona. Univ. Office of Arid Lands Studies
Corrections for an Inventory of geographical research on desert environments [Ch. 1–9], 21.11–36R

rizumi, N.
Japanese meteorological rocket sounding (*with others*), 21.3–140

rmendariz, Manuel
Turbulent characteristics in the surface boundary layer (*with* **Rider, Laurence J.** and **Hansen, Frank V.**), 21.1–481
See also **Monahan, H. H.,** 21.3–607; **Rider, L. J.,** 21.1–522; 21.4–244; 21.6–520

rmillas, Pedro
Arid frontier of Mexican civilization, 21.2–304

Armstrong, B. H.
Radiative diffusivity factor for the random Malkmus band, 21.1–449

Armstrong, E. B.
Doppler shifts in the wavelength of the OI λ 6300 line in the night airglow, 21.3–67

Armstrong, Graham M.
Plan shear indicator for realtime Doppler radar identification of hazardous storm winds (*with* **Donaldson, R. J.**), 21.3–210

Armstrong, R. H.
Final report of weather and surface radiation activities for the Sterling Event, Project Sterling (*with* **Morrell, J. R.**), 21.3–3

Armstrong, R. J.
Some drift observations by radio reflections from Es (*with* **Lue, T.**), 21.6–217

Arnason, Bragi
Exchange of hydrogen isotopes between ice and water in temperate glaciers, 21.8–425

Arnason, Geirmundur
Numerical experiment in dry and moist convection including the rain stage (*with* **Greenfield, Richard S.** and **Newburg, Edward A.**), 21.1–537
Numerical simulation of the macrophysical and microphysical processes of moist convection (*with* **Brown, P. S.** and **Chu, R. T.**), 21.5–529

Arnaud, Pierre
Etang de Salses-Leucate: ses principaux caracteres physico-chimiques et leurs variations en 1955–1956 et de 1960 a 1968) [The Salses Leucate pond: its main physico-chemical characteristics and their variation in 1955–1960 and from 1960–1968] (*with* **Raimbault, Rene**), 21.10–840

Arnold, F.
Mass spectrometer measurements of positive ions and neutral gas between 100 and 233 km above Andoya, Norway (*with others*), 21.5–308

Arnold, James E.
On the question of low-level cloud response to the temperature field of the sea surface, 21.4–156

Arnoldy, R. L.
Observation of 10–50 keV solar flare X-rays by the OGO satellites and their correlation with solar radio and energetic particle emission (*with* **Kane, S. R.** and **Winckler, J. R.**), 21.2–132

Particle substorms observed at the geostationary orbit (*with* **Chan, K. W.**), 21.6–396
Rapid fluctuations of energetic auroral particles, 21.6–397

Arnon, I., *see* **Plaut, Z.**, 21.10–437

Aroesty, J.
Note on the temperature and evaporation of small droplets (*with* **Koenig, L. R.**), 21.1–558

Aroyo, M., *see* **Gagin, A.**, 21.7–60

Arrhenius, G., *see* **Alfvén, H.**, 21.4–473

Arsenin, V. Ia.
O dal'nem troposfernom rasprostranenii korotkikh i srednikh voln [Far tropospheric propagation of short and decametric waves] (*with* **Ivanov, V. V.** and **Stepanov, B. M.**) [and English transl.], 21.3–343

Artem'eva, L. M., *see* **Filippov, V. L.**, 21.7–332

Arushanov, G. G.
Elastic scattering of strongly-interacting particles at high energies [Transl. from Russian], 21.2–158

Arvesen, John C.
Determination of extraterrestrial solar spectral irradiance from a research aircraft (*with* **Griffin, R. N., Jr.** and **Pearson, B. D., Jr.**), 21.5–437

Arya, S. P. S.
Modeling of the stably stratified atmospheric boundary layer (*with* **Plate, E. J.**), 21.1–314
See also **Cermak, J. E.**, 21.12–355

Asai, Tomio
Cloud bands on the lee side of Sado Island as observed from aircraft (*with* **Furukawa, Takehiko**), 21.1–577
Controlling influence of large-scale atmospheric condition on cumulus convection, 21.5–530
Numerical investigation of hydrodynamic instability of a shear flow in a thermally unstable fluid layer (*with* **Nakasuji, Isao**), 21.7–233
On the spacing of convective cloud bands, 21.6–579

Asakura, Tadashi
Studies on the seasonal forecasting of summer season in Japan, Pt. 3 (*with* **Kuboki, Kōki**), 21.10–70R

Asano, Shoji, *see* **Yamamoto, Giichi**, 21.7–572

Asbridge, J. R., *see* **Hundhausen, A.** 21.2–145

Ashbel, Dov
Climate of Haifa (Larger area), 21.11–44
Climate of Israel: the Hule Valley Upper Jordan, 21.11–450
Climate of Israel: Tiberias and surroun ings on the Sea of Galilee, 21.11–451

Ashcheulov, S. V.
Analysis of the counterradiation spectra the atmosphere (*with* **Kondrat'ev, Ia and Styro, D. B.**), 21.10–3R
Calibration of infrared spectrophotomete [Transl. from Russian], 21.10–4R
Determination of the absorption coefficien for certain atmospheric windows and a sorption bands according to emissi spectra (*with* **Kondrat'ev, K. Ia.** an **Styro, D. B.**), 21.10–5R
Experimental studies of the counterradi tion of the clouded sky (*with* **Kondra ev, K. Ia.** and **Styro, D. B.**) [Tran from Russian], 21.10–6R
Issledovanie emissionnykh spektrov pro voizlucheniia atmosfery [Sky emissi spectra analysis] (*with* **Kondrat'ev Ia.** and **Styro, D. B.**), 21.2–126
Samoletnye izmereniia sobstvennogo izl cheniia Zemli i atmosfery [Earth su face and atmosphere radiation measur ments from planes] (*with* **Kondrat'e K. Ia.**), 21.2–127

Ashford, O. M.
Cost/benefit studies in meteorolog 21.11–1
Cost of meteorological services, 21.1–58
Meteorology and mankind, 21.11–2

Ashwell, G. E.
Simultaneous lidar and refractomet soundings of layer structure in the trop sphere (*with* **Lane, J. A.**), 21.4–45

Ashwell, I. Y.
Research in urban climate in the Unive sity of Calgary, 21.4–350

Asija, P. K., *see* **Rajagopala Rao,** 21.11–88

Asnani, G. C.
New hypothesis on atmospheric tide 21.2–511

Aso, Takehiko, *see* **Oya, Hiroshi**, 21.10–17

Assaf, G.
Emanated products as a probe of atmo spheric transport, 21.12–322
Sea surface as a sink of emanation pro ucts (*with* **Gat, J. R.**), 21.11–218

Asselin de Beauville, J. P.
  Instrument de mesure de la teneur en eau liquide des nuages (*with* **Dernis, A.** and **Will, R.**), 21.6–86
  Quelques profils verticaux du contenu en eau liquide dans les stratus et les stratocumulus [Some vertical profiles of liquid water content in stratus and stratocumulus], 21.7–563
Associazione Geofisica Italiana, Rome
  Bibliografia Geofisica Italiana 1966 [Italian geophysical bibliography 1966], 21.9–126R
Assur, Andrew, *see* **Dingman, S. L.**, 21.4–505
  See also **Weeks, W. F.**, 21.5–774
Astakhova, N. I.
  Rezhim ispareniia s sel'skokhoziaistvennykh polei [Evaporation regime from agricultural fields] (*with* **Konstantinov, A. R.**), 21.12–491
Astapenko, P. D.
  Nekotorye osobennosti atmosfernoĭ tsirkuliatsii nad iuzhnym polushariem [Certain peculiarities of atmospheric circulation about the Southern Hemisphere of the Earth] (*with* **Gaĭgerov, S. S.**), 21.1–373
Astapovich, I. S.
  Fireball radiants of the 1st–15th centuries (*with* **Terent'eva, A. K.**), 21.11–606
Astheimer, Robert W.
  Remote detection of CAT by infrared radiation, 21.8–331
Astokhova, N. I.
  Rezhim ispareniia s sushi na territorii SSSR [Evaporation regime from land in the U.S.S.R.] (*with* **Konstantinov, A. R.**), 21.2–240
  See also **Konstantinov, A. R.**, 21.2–244
Aston, A. R.
  Radiation exchange in controlling leaf temperature (*with* **Millington, R. J.** and **Peters, D. B.**), 21.5–428
Astronomischer Jahresbericht [Astronomical Yearbook], 21.9–108R
Ateshian, K. H.
  Reuse of water in the sugar industry in Guyana (*with* **Mohamed, I. S.**), 21.8–678
Athay, R. Grant
  Boundary conditions on model solar chromospheres, 21.9–545
Atkins, Elbert W.
  Final Report (on) the Amos V Observer Aid Test, Pt. 1 (*with* **Hoehne, Walter E.**), 21.8–69
  See also **George, D. H.**, 21.4–348
Atkins, Margaret J.
  Objective analysis of upper air height and humidity data on a fine mesh, 21.11–109
Atkinson, Bruce W.
  Weather business, 21.6–127
Atkinson, G.
  Two-dimensional Chapman–Ferraro problem with neutral sheet, Pt. 3, Implied magnetospheric flows and their time dependence (*with* **Unti, T.**), 21.12–314
Atlas, David
  Clear air turbulence detection methods: a review, 21.10–78R
  Further remarks on atmospheric probing by ultrasensitive radar, 21.6–39
  Influence of specular reflections on bistatic tropospheric radio scatter from turbulent strata (*with* **Srivastava, R. C.** and **Marker, W. S., Jr.**), 21.2–59
  Measurement of crosswind by non-coherent dual arm bistatic radio tropo-scatter techniques, 21.3–68
  Precipitation-induced mesoscale wind perturbations in the melting layer (*with* **Tatehira, Ryozo**), 21.10–88
Atlas, R. A.
  Simultaneous occurrence and statistical distribution of clouds over the United States, 21.5–602
Atoniu, Radu
  Schiţa planului deprotecţie a calităţii apelor din bazinul hidrografic Olt [The outline of water quality protection plan for the Olt hydrographic basin] (*with* **Ghiţă, I.**), 21.5–760
Attmannspacher, W.
  Ozone and temperature change in the upper stratosphere, 21.5–319
Atwater, A., *see* **Ostby, F. P.**, 21.1–124
Auer, A. H., Jr.
  Observations of ice crystal and ice nuclei concentrations in stable cap clouds (*with* **Veal, D. L.** and **Marwitz, J. D.**), 21.10–89R
  Plume tracking and mass flow studies within the Elk Mountain Water Resource Observatory and Western South Dakota (*with others*), 21.11–143
Aufdermaur, A. N., *see* **Levi, L.**, 21.6–620

Augulis, Richard P.
Precipitation probabilities in the Western Region associated with fall 500-mb map types, 21.8–373
Precipitation probabilities in the Western Region associated with spring 500-mb map types, 21.8–371
Precipitation probabilities in the Western Region associated with summer 500-mb map types, 21.8–372
Precipitation probabilities in the Western Region associated with winter 500-mb map types, 21.8–370
Tsunamis, 21.12–795
Auliciems, A.
Effects of weather on indoor thermal comfort, 21.7–688
Aumann, H. H.
Internal powers and effective temperatures of Jupiter and Saturn (*with* **Gillespie, C. M., Jr.** and **Lowe, F. J.**), 21.10–624
Aune, B.
Pan evaporation in Zambia, 21.4–256
Austford, V. M.
Interim studies on measures to supplement low flows on the Souris River in Manitoba, 21.6–780
Austin, Michael E.
Multiple scattering of microwave signals in the troposphere, 21.9–130
Austin, R. S., *see* **Hoffman, G. J.**, 21.3–201
Austin, Roswell W.
Assessing underwater visibility, 21.12–744
Australia. Bureau of Census and Statistics
Physical geography and climate (of Australia), 21.11–452
Australia. Bureau of Meteorology
Laverton serial sounding experiment, 21.3–123; 21.12–57
Review of Australia's water resources, 21.4–257
Tropical cyclones in the northern Australian regions, 1966–67 season, 21.3–456
Australia. Commonwealth Scientific and Industrial Research Organization. Div. of Fisheries and Ocean.
Coastal investigations off Port Hacking, New South Wales, in 1961 [and] Investigations, 1962, 1963, and 1964, 21.2–668
Investigations by F.V. *Estelle Star* in western Australian water in 1962 [and] Investigations by F.V. *Estelle Star* in south Australian and New South Wales waters in 1965 [and] Investigations by F.V. *Estelle Star* in south and western Australian waters in 1966, 21.2–671
Temperature and salinity observatio from Australian tuna fishing vessels i 1965, 21.2–670
Australia. Commonwealth Scientific an Industrial Research Organizatio Div. of Meteorological Physics
Annual Report 1966–67, 21.1–36
Annual Report 1967/1968, 21.3–4
Annual Report 1968/69, 21.12–15R
Australia. Commonwealth Scientific an Industrial Research Organizatio Div. of Radiophysics
Cloud seeding experiment, 21.2–49
Cloud seeding experiment: Annual Repor [on] South Australia, 1957, 21.1–264
Cloud seeding experiment: Annual Repor [on] Tasmania, 1964, 21.1–265
Cloud seeding experiment: Annual Repo [on] Tasmania, 1965–66, 21.9–109R
Australia. Dept. of National Developme
[General water conditions of Australia 21.11–95
Stream gauging information, Australia Supplement 1968, 21.10–113R
Australian Natl. Antarctic Research Expedition
A.N.A.R.E. Data Reports, Ser. D, Vo 19, 21.5–73
A.N.A.R.E. Data Reports, Ser. D, Vo 20, Meteorology [of] Macquarie Islan Mawson and Wilkes, 1967, 21.10–106R
Austria. Zentralanstalt für Met. und Geodynamik
Aerologische Berichte: Radiosondenaufstiege und Höhenwindmessungen, Jänner–März 1969 [Aerological reports radiosonde ascents and upper wind measurements, Jan.–June 1969], 21.3–124
Ergebnisse von Strahlungsmessungen i Osterreich, 1965–1966, 5 Heft [Result of radiation measurements in Austria 1965–1966, Pt. 5.], 21.9–193R
Jahrbuch, n.f. 104, 1967 [Yearbook, ne ser., 1967], 21.1–37
Auvray, C.
Training of hydrological engineers an technicians, 21.6–735
Avaste, O. A.
Geograficheskoe i sezonnoe raspredeleni pogloshchennoi v atmosfere priamoi solnechnoi radiatsii [Geographical and seasonal distribution of absorbed direc solar radiation in the atmosphere] 21.12–421
Pritok tepla korotkovolnovoĭ radiatsii v bezoblachnoĭ i oblachnoĭ atmosfere [Th

short-wave radiation flux in a clear and cloudy atmospheres], 21.1–454

O propuskanii i pogloshchenii solnechnoĭ radiatsii v bezoblachnoĭ atmosfere [Transmission and absorption of solar radiation in cloudless atmosphere] (*with* **Krasnokutskaia, L. D.** and **Feĭgel'son, E. M.**), 21.7–342

Raschet pogloshchennoi priamoi solnechnoi radiatsii po izmerennomu raspredeleniiu vlazhnosti atmosfery [Calculation of absorbed direct solar radiation using measured distribution of water vapor in the atmosphere], 21.12–422

Avduevskiĭ, V. S.

Atmosphere of the planet Venus from data of the Soviet space probe Venera 4 [*with* **Marov, M. Ia.** and **Rozhdestvenskii, M. K.**], 21.9–496

Rezul'taty izmereniĭ parametrov atmosfery Venery na Sovetskoĭ AMS "Venera-4" [Results of measurements of parameters of the Venusian atmosphere made by the Soviet automatic interplanetary station Venera-4] (*with* **Marov, M. Ia.** and **Rozhdestvenskiĭ, M. K.**) [and English transl.], 21.2–439

Aver'ianov, V. G.

K voprosu o velichine nakopleniia snega v Tsentral'noi Antarktide [Problem of the magnitude of snow accumulation in Central Antarctica], 21.11–396

Klimaticheskie usloviia oaziasa Shirmakhera po nabliudeniiam na stantsii Novolazareskoĭ v 1961–1966 gg. [Climatic conditions of Schirmacher oasis according to the observations at Novolazarevskaya Station in 1961–1966], 21.3–678

Avery, Lorne W.

Solar spicule model based upon calcium II K line radiative transfer studies (*with* **House, Lewis L.**), 21.12–630

Avramchuk, V. V.

O rezul'tatakh spektrofotometrii polos pogloshcheniia metana (6190 Å) i ammiaka (6441 i 6478 Å) na diske Iupitera [Results of spectrophotometry of absorption bands of methane (6190 Å) and ammonia (6441 and 6478 Å) on Jupiter disk], 21.12–608

Avramenko, A. S.

O radioaktivnosti kapel' dozhdia [The radioactivity of rain drops] (*with* **Makhon'ko, K. P.**), 21.8–426

Avias, J.

De l'utilisation tactique des modèles pour la valorisation optimale des systèmes hydrologiques [Practical use of models for optimal verification of hydrological systems], 21.1–769

Axelrod, Daniel I.

Paleotemperature analysis of tertiary floras (*with* **Bailey, H. P.**), 21.6–424

Axford, D. N.

Divergence measurements from an aircraft, 21.1–527

Axford, W. I.

Helium in the atmosphere, aurora and solar wind, 21.6–166

See also **Fisk, L. A.**, 21.7–407; 21.9–477; **Johnson, H. E.**, 21.1–279

Ayers, H. D.

Derivation of a general flood wave hydrograph from a continuous watershed water balance (*with* **Balek, J.**), 21.9–651

Azim, Kaleem

Gravity inertia waves as a possible cause of small scale oscillations of ozone concentration in the lower stratosphere, 21.4–58

Azimov, S. A.

Azimuthal angular distribution of shower particles and gray tracks formed by particles of cosmic radiation in a photoemulsion (*with* **Rasulkulov, M. S.** and **Chudakov, V. M.**) [Transl. from Russian], 21.2–159

B

Babadzhanov, P. B.

Opredelenie parametrov melkomashtabnoi turbulentnosti atmosfery po kombinirovannym nabliudeniiam meteorov [Determination of the parameters of small-scale turbulence of the atmosphere from combined observations of meteors] (*with* **Bibarsov, R. Sh.**), 21.9–255

Some results of investigations of instantaneous meteor photographs (*with* **Kramer, E. N.**), 21.11–599

Svechenie i ionizatsiia meteorov [Radiation and ionization of meteors] [and English transl.], 21.2–450

Babaian, Kh. P.

Spektr shirokikh atmosfernykh livnei po chislu chastits na vysotakh gor [Spectrum of extensive air shower with respect to the number of the particles at mountain altitude] (*with others*), 21.7–391

Babak, I. F.
Kratkosrochnye prognozy urovneĭ vody na. r. Enisee [Short-range forecasts of the Yenisei River water level] (*with* **Poliakovskaia, I. D.**), 21.2–541

Baer, F.
Influence of cyclone scale waves on the planetary scale, 21.3–457

Baghare, M. M., *see* **Datta, R. K.,** 21.3–226

Babichenko, V. N.
O grozovoĭ deiatel'nosti na eksperimental'nom meteorologicheskom poligone [Thunderstorm activity in an experimental meteorological range] (*with* **Kobzistyĭ, P. I.**), 21.10–254
O naibol'shem polusutochnom kolichestve osadkov, na Eksperimental'nom meteorologicheskom poligone [The largest semidaily precipitation amount on the Experimental Meteorological Polygon], 21.8–402
Osobennosti raspredeleniia grada po dannym gustoĭ osadkomernoĭ seti Eksperimental'nogo meteorologicheskogo poligona [Peculiarities of the distribution of hail according to a given heavy precipitation measuring network of the Experimental Meteorological Polygon] (*with* **Kobzistyĭ, P. I.**), 21.7–639

Babinov, I. Ia., *see* **Popova, L. V.,** 21.10–42R

Bachurina, A. A.
Nekotorye dannye o rezul'tatakh analiza sputnikovykh izmerenii ukhodiashchego izlucheniia [Some data on the results of an analysis of satellite measurements of outgoing radiation] (*with* **Zabelina, G. M.**), 21.12–415
Nekotorye statisticheskie dannye o znachitel'nykh osadkakh nad tsentral'nym raionom Evropeiskoi territorii SSSR v teplyi period [Some statistical data on significant precipitations during a warm period in the central region of the European U.S.S.R.] (*with others*), 21.12–50

Badalian, O. G.
Razlichie turbulentnykh skorosteĭ v aktivnoĭ i nevozmushchennoi fotosfere [The difference of turbulent velocities in the active and undisturbed photosphere] (*with* **Livshits, M. A.**), 21.7–767

Badillo, V. L.
Solar microwave burst from behind-the-limb proton flare (*with* **Salcedo, J. E.**), 21.11–551

Baggaley, W. J.
Backscatter observations of F-region fiel aligned irregularities during the IQSY 21.7–172

Bagirova, R. I.
Salt accumulation processes in the groun waters of the Kirovabad-Kazakh massi 21.1–647

Bagley, Jay M.
Methods of estimating mean annual wate yield in areas of limited hydrologic da (*with* **Huber, A. L.** and **Jeppson, K W.**), 21.9–590

Bagrov, N. A.
O klassifikatsii sinopticheskikh protsesso [The classification of synoptic processes], 21.3–443
O prognoze polia H_{500} na polusharii [Forecast of geopotential field for the 500-m surface for a hemisphere] (*with* **Steblianko, V. A.**), 21.8–108
Ob analogichnosti polei mesiachnogo kolichestva osadkov [The analogousness o fields of monthly precipitation amounts] 21.12–162
Ob ekvivalentnom chisle nezavisimykh dannykh [Equivalent number of independent parameters], 21.12–160
Prognoz temperatury na mesiats [Monthly temperature forecasts] (*with* **Miakisheva, N. N.**), 21.12–158

Baibulatov, F. Kh., *see* **Minin, V. F.,** 21.12–587

Baidal, M. Kh.
K voprosu o masshtabakh i formakh realizatsii vliianiia solnechnoi aktivnosti [Problem of the scales and forms of the manifestations of the effect of solar activity], 21.12–576
Mnogomesiachnye temperaturnye volny i ikh makrotsirkuliatsionnye prichiny [Multi-month temperature waves and their macro-circulation causes], 21.12–447
Nekotorye osobennosti vzaimosviazi mezhdu razlichnymi kharakteristikami lednikov i klimatoobrazuiushchimi faktorami na primere Tsentral'nogo Tuiuksuiskogo lednika [Some peculiarities of the relationship between different glacier characteristics and climate forming factors based on the example of the Central Tuyuksuisk glacier], 21.12–561
O strukture vliianiia solnechnoi aktivnosti na atmosfernye osadki [Effect of solar

activity on atmospheric precipitations], 21.12–577

O sviazi anomalii temperatury vozdukha sezona s tepom potentsial’nogo protsessa predydushchego estestvennogo sinopticheskogo sezona [The connection between the seasonal air temperature anomaly and the type of potential process preceding the natural synoptic season], 21.12–448

Baier, W.

Concepts of soil moisture availability and their effect on soil moisture estimates from a meteorological budget, 21.6–629

Observed and estimated seasonal soil water variations under nonirrigated sod, 21.7–649

Baĭkov, I. S.

O prirode neodnorodnoĭ struktury okolosolnechnoĭ plazmy [The origin of the inhomogeneous structure of the circumsolar plasma] (*with* **Lotova, N. A.**), 21.7–764

Bailey, Harry P., *see* **Axelrod, D. I.**, 21.6–424

Bailey, I. H.

Heat transfer from artificial hailstones (*with* **Macklin, W. C.**), 21.1–638

On the isotopic composition of hailstones (*with others*), 21.1–639

Surface configuration and internal structure of artificial hailstones (*with* **Macklin, W. C.**), 21.1–640

See also **Macklin, W. C.**, 21.1–651

Bailey, Harry P.

Hourly temperatures and annual range, 21.3–104

Bailey, M.

On extreme daily rainfall in Zambia, 21.7–613

Bailey, M. H.

Extreme temperatures in Virginia (*with* **Tinga, J. H.**), 21.2–191

Bain, W. C.

Comparison of Russian and British electron density distributions derived from the same VLF and LF propagation data, 21.2–64

Bain, W. F.

Direct D-layer reflection as a factor in oblique propagation on the lower high frequencies (*with* **Buckley, R. J.**), 21.8–160

Baird, C. D.

Precision measurement of dew point changes with electrolytic condensation hygrometer (*with* **Myers, J. M.** and **Ross, I. J.**), 21.9–69

Baird, Ralph W.

Effects of conservation treatments on water yield (*with* **Richardson, Clarence W.**), 21.10–679

Baĭtodorova, Z. P., *see* **Korovin, V. I.**, 21.10–767

Baiulescu, Gh., *see* **Magiricu, V.**, 21.3–37

Bakanov, V. A.

Observations of noctilucent clouds in Gorki during 1966–1967 (*with* **Demidovich, E. G.** and **Poroshin, A. P.**), 21.10–482

Bakayev, N. M.

Rapid determination of soil moisture by the gravimetric method (*with* **Popkov, S. N.**), 21.10–421

Baker, C. H., Jr.

Thermal springs near Midway, Utah, 21.4–575

Use of Moire fringes in laboratory oceanography, 21.9–683

See also **Stone, P. H.**, 21.1–362

Baker, Donald G.

Frequency, duration, commencement time and intensity of temperature inversions at St. Paul–Minneapolis (*with* **Enz, J. W.** and **Paulus, H. J.**), 21.4–169

See also **Haines, D. A.**, 21.1–437; **Idso, S. B.**, 21.1–438

Baker, Donald M.

Acoustic waves in the ionosphere following nuclear explosions, 21.5–337

F2-region acoustic waves from severe weather (*with* **Davies, K.**), 21.7–173

Baker, Donald R.

Annotated bibliography of reports, studies, and investigations relating to satellite hydrology (*with* **Flanders, A. F.** and **Fleming, M.**), 21.11–48R

See also **McClain, E. P.**, 21.5–98

Baker, K. D.

Digital plasma frequency probe for fine scale ionospheric measurements (*with* **Pound, E. F.**), 21.10–95

See also **Ulwick, J. C.**, 21.11–525

Baker, M. B.

Modeling of solar cosmic ray events based on recent observations (*with* **Santina, R. E.** and **Masley, A. J.**), 21.7–392

Baker, Trevor

Simple summer weather index, 21.11–459

Bakhanova, R. A.
On passivation of condensation nuclei by surface-active agents (*with others*), 21.12–510
On the application of surface-active agents to prevent water evaporation fogs over the unfreezing water basins in winter season (*with* **Solianek, E. G.**), 21.6–538
Bakhrakh, L. D.
Mnogozerkal'naia skhema antenny radioteleskopa RT-22 FIAN (Multimirror antenna design of RT-22 FIAN), 21.12–593
Povyshenie effektivnosti RT-22 na volne 8 mm [Improvement of the operation efficiency of the radiotelescope RT-22 at the wavelength 8 mm] (*with others*), 21.9–469
Bakhshi, Vidya Sagar
Boundary layer transition, 21.11–166
Balachandran, N. K.
Dispersion of acoustic-gravity waves in the atmosphere (*with* **Donn, W. L.**), 21.4–388
See also **Donn, W. L.**, 21.12–373
Balalla, O. A.
Temperaturno-vetrovye usloviia maksimal'noĭ teplootdachi zdaniĭ vo Vladivostoke [Temperature–wind conditions for maximal heat transfer in the buildings in Vladivostok], 21.5–468
Balantyne, Ernest, *see* **Zawadzki, I. I.**, 21.12–106
Balashova, I. V., *see* **Ginzburg, B. M.**, 21.2–628
Balasubrahmanyan, V. K.
Solar activity and the 11-year modulation of cosmic rays, 21.2–160
Solar activity, 27-day variation and long term modulation of cosmic ray intensity (*with* **Venkatesan, D.**), 21.10–290
Balek, J., *see* **Ayers, H. D.**, 21.9–651
Balescu, Oprea I.
Turbulenta in aer clar [Clear air turbulence), 21.12–470
Balkov, V. A., *see* **Shkliaev, A. S.**, 21.2–514
Ball, John T., *see* **Cooley, D. S.**, 21.6–130
Ballard, Harold N.
Constant-altitude balloon experiment at 48 kilometers (*with others*), 21.11–77
Thermistor measurements of temperature in the 30–65-km atmospheric region 21.7–50
Ballario, M. C.
On the loop-motion in flares, 21,2–477
On the special events of March 1966: correlation between solar and terrestrial phenomena, 21.8–562
Ballif, J. R.
Flares, Forbush decreases, and geomagnetic storms (*with* **Jones, D. E.**), 21.10–650
Morphology of a solar-terrestrial event in March 1966, (*with* **Jones, D. E.**), 21.3–712
Balogh, Zoltán
A vízgőzkészlet szerepe a zivatarok kialakulásában [The role of vapor content in the development of thunderstorms] (*with* **Götz, G.** and **Szaley, G.**), 21.3–482
Balueva, A. S.
K voprosu o chislennom reshenii zadachi transformatsii poleĭ meteorologicheskikh elementov [The question of numerical solution of the problem of transformation of fields of meteorological elements] (*with* **Novikova, S. P.**), 21.3–487
Balzer, Konrad
Wie kann die meteorologische Betreuung der Volkswirtschaft optimiert werden [How can the meteorological advisory service be of optimum usefulness to the economy], 21.10–118
Bame, S. J., *see* **Hundhausen, A. J.**, 21.2–145
Bancarel, J. P.
Ozone et prévision météorologique [Ozone and meteorological forecast] (*with* **Calvo Canales, F.**), 21.5–149
Banchero, Louis A.
Oceanographic evaluation of a deep water isotopic current analyzer (DWICA) *with* **Andersen, Neil R.**), 21.8–824
Band, G.
Einfluss der Siedlung auf das Freilandklima [Influence of built-up area on the climate of the open countryside], 21.9–406
Bandeen, William R.
Experimental approaches to remote atmospheric probing in the infrared from satellites and [Comments by] **S. Fritz**, 21.6–65
See also **Raschke, E.**, 21.6–366; 21.10–265
Bandermann, L. W.
Interplanetary dust measurements near the Earth (*with* **Singer, S. F.**), 21.6–691
Bandyopadhya, M., *see* **Raman, V.**, 21.8–398

Banerjee, A. K.
- Abnormal rise of surface temperature in association with thunderstorm downdrafts, (*with* **Sharma, K. K.** and **Chowdhury, A. B.**), 21.4–114
- *See also* **Bedekar, V. C.**, 21.10–384

Banerji, S.
- Determination of the distribution of rainfall floods in large catchments using hydrometeorological data (*with* **Mantan, D. C.**), 21.8–465
- Hydrological problems related to the use of saline waters, 21.2–709
- On a general theory of duration curve and its application to evaluate the plotting position of maximum probable precipitation or discharge (*with* **Gupta, D. K.**), 21.8–407

Bánkövi, György
- Csapadékkeltesi kísérletek tervezése és értékelése [Planning and evaluation of experiments on artificial stimulation of precipitation] (*with* **Wirth, Endre**), 21.10–127

Banks, P. M.
- Concerning the influence of elastic scattering upon photoelectron transport and escape (*with* **Nagy, A. F.**), 21.12–277
- Polar wind and its implications, 21.7–210
- *See also* **Holzer, T. E.**, 21.3–693

Banoub, M. W.
- Winter distribution of silicate in Southampton water (*with* **Burton, J. D.**), 21.4–685

Bansal, R. K., *see* **Bhargava, B. N.**, 21.9–314

Bappu, M. K. (Vainu)
- Chromospheric heights in active regions (*with* **Sivaraman, K. R.**), 21.1–706
- Some characteristics of the solar wind inferred from the study of sodium emission from cometary nuclei, 21.7–363

Barabanov, A. T., *see* **Surmach, G. P.**, 21.9–340

Barabanov, I. R.
- Ustanovka dlia registratsii raspadov radioaktivnogo Ar^{37} [An installation for measuring ultramicroquantities of radioactive Ar^{37}] (*with* **Veshnikov, V. B.** and **Pomanskiĭ, A. A.**), 21.10–92

Barabashov, B. G.
- O kolichestvennoĭ kharakteristike mnogoluchevosti [Quantitative characteristic of multipath propagation], 21.10–7R

Barabashov, N. P.
- O fazovoĭ krivoĭ Marsa i raspredelenii iarkosti na ego diske [Phase curve of Mars and the brightness distribution on its disk), 21.10–611

Barad, Morton L.
- Partial directory of West European and Middle East scientists engaged in meteorological research, 21.1–59

Baranov, G. I.
- Usloviia formirovaniia i nekotorye svoĭstva morskikh Antarkticheskikh l'dov po nabliudeniiam v 1963 g [Conditions of formation of the Antarctic sea ice and its properties according to the observations in 1963] (*with* **Nazintsev, Iu. L.** and **Cherepanov, N. V.**), 21.4–620

Baraou, J.
- Organisation météorologique du groupe "M" [Meteorological organization of group "M"], 21.3–5

Barasch, Guy E.
- 1965 ARPA–AEC Joint Lightning Study at Los Alamos, Vol. 4, Discrimination against false triggering of air-fluorescence detection systems by lightning, 21.8–620
- Special intensities emitted by lightning discharges, 21.7–716

Barashkova, E. P.
- Certain regularities in the vertical distribution of the ascending longwave radiation [Transl. from Russian], 21.11–3R
- Experiment in comparing the results of measurements from the ground, aircraft, and satellites (*with* **Gaevskiĭ, V. L.**) [Transl. from Russian], 21.11–4R
- Experimental investigations of radiative processes in the free atmosphere (*with* **Gaevskiĭ, V. L.** and **Rabinovich, Iu. I.**) [Transl. from Russian], 21.9–4R

Barat, J.
- Structure of the turbulent field from 90 to 120 km (*with* **Blamont, J.**), 21.6–480
- *See also* **Sidi, C.**, 21.9–182

Barbee, W. D., *see* **Larsen, L. H.**, 21.4–771

Barber, C. R.
- International Practical Temperature Scale of 1968, 21.5–469

Barber, F. G., *see* **Huyer, A.**, 21.9–734

Barber, N. F.
- Water waves, 21.10–831

Barbon, R.
- Some unusual spectra of meteors from the Palomer 18-inch Schmidt file (*with* **Russell, J. A.**), 21.11–617

Barbu, Iulian, *see* **Protopopescu-Pache, E. I.,** 21.1–784
Barcus, J. R.
  Diurnal variation in low-energy cosmic ray cutoffs, 21.7–393
  Increase in cosmic-ray cutoffs at high latitudes during magnetospheric substorms, 21.7–394
  Solar protons E > 100 MeV incident over Antarctica during January–February 1967, 21.7–395
Bardeau, H.
  Étude de la structure fine de la température et de l'état hygrométrique de la basse atmosphère entre 0 et 2000 métres [Study of the fine structure of the temperature and of the hygrometric state of the power atmosphere, at altitudes between 0 and 2000 meters], 21.1–192
  Etude de la structure spatiale de la température de la basse atmosphère [Study of the spatial structure of the temperature of the lower atmosphere], 21.6–449
  See also **Chauzy, S.,** 21.3–389
Barg, B.
  Ob izuchenii potepleniĭ v stratosfere s pomoshch'iu chislennykh eksperimentov [Studying stratospheric warming with the aid of numerical experiments] (*with* **Mashkovich, S. A.**), 21.2–200
  Studie zum Verhalten and zur Bedeutung einer explosionsartigen, lokalen Erwärmung der Stratosphäre, 50 mbar-Niveau [Behavior and significance of an explosive type of local warming of the stratosphere at the 50-mb level], 21.7–452
Barghausen, Alfred F.
  Predicting long-term operational parameters of high-frequency sky-wave telecommunication systems (*with others*), 21.3–370
Bargman, D. J.
  Meteorology and transport, 21.11–3
Barham, E. G., *see* **Davies, I. E.,** 21.5–788
Baric, A.
  Behavior of indium in seawater: a preliminary study (*with* **Branica, M.**), 21.9–706
Barker, E. S., *see* **Schorn, R. A.,** 21.9–510
Barkin, A. M., *see* **Palagniuk, E. G.,** 21.12–47
Barkley, R. A.
  Kuroshio current, 21.10–817
  Oceanographic atlas of the Pacific Ocean, 21.2–644
Barletti, R.
  Correlazione tra la scintillazione del radic sole a 3.2 cm e la struttura termoigrc metrica della bassa troposfera: nota ir troduttiva. [Correlation between th scintillation of radio waves at 3.2 cr and the thermo-hygrometric structure c the lower troposphere: introductor note] (*with others*), 21.1–333
  Solar X-ray deduced from flare effects o VLF propagation (*with* **Tagliaferr G. L.**), 21.2–133
Barlier, F.
  Utilisation d'observations d'amateurs pou l'étude de la haute atmosphère en corre lation avec l'activité solaire [Use o amateur observations for studying th upper atmosphere in correlation wit solar activity], 21.4–35
Barnes, Clifford A.
  [Obituary of] Floyd Melville Soule, 21.9 148R
  See also **Gross, M. G.,** 21.6–844
Barnes, Ivan
  Chemical properties of groundwater an their corrosion and encrustation effects on wells (*with* **Clarke, F. E.**), 21.4–552
  See also **Clarke, F. E.,** 21.3–709
Barnes, James C.
  Satellite surveillance of mountain snow in the western United States (*with* **Bowley, C. J.**), 21.3–34
Barnes, P., *see* **Robin, G. de Q.,** 21.11–750
Barnwell, Richard W.
  Inviscid radiating shock layers about spheres traveling at hyperbolic speeds in air, 21.3–698
Barov, V., *see* **Angelov, A.,** 21.4–310
Barr, William C., *see* **Kline, James C.,** 21.8–604
Barrell, H.
  Kew Observatory and the National Physical Laboratory, 21.3–172
Barreto, Ernesto
  Electrical discharges from and between clouds of charged aerosols, 21.8–621
  On the formation of Langevin ions in water supersaturated air jets, 21.9–427
Barrett, R.
  Kenya, 21.11–95R
Barringer, A. R., *see* **Moffat, A. J.,** 21.12–249
Barron, N. A.
  Investigations of crop-hail loss measurement techniques (*with* **Changnon, S. A.** and **Hornaday, J.**), 21.10–405

- **Barron, Roger L.**
  - Inference of vehicle and atmosphere parameters from free-flight motions, 21.7–156
- **Barros Ferraz, E. S.**
  - Adaptação de um radiômetro para medidas de radiação solar global sob a áqua [Adaptation of a radiometer to measure world solar radiation under water], 21.11–84
- **Barrow, Bruce B.**
  - Tropospheric-scatter measurements using a rake receiver, 21.9–131
- **Barrs, H. D.**
  - Determination of water deficits in plant tissues, 21.5–544
- **Barry, J. Dale**
  - Sharovaia molniia [Ball lightning], 21.9–5R
- **Barry, P. J.**
  - [Discussion of] **Ulf Högstrom:** A statistical approach to the air pollution problem of chimney emission, 21.5–235
- **Barry, R. G.**
  - Atmosphere, weather and climate (*with* **Chorley, R. J.**), 21.5–3
  - Climatology studies of Baffin Island, Northwest Territories (*with* **Fogarasi, S.**), 21.4–308
  - Evaporation and transpiration, 21.1–552
  - Long-term precipitation trends, 21.1–611
  - Precipitation, 21.1–600
  - "Weather-type" frequencies and the recent temperature fluctuation (*with* **Perry, A. H.**), 21.3–558
  - World hydrological cycle, 21.1–547
- **Barstow, Dennis**
  - Hydrographic data from Oregon waters, 1968 (*with* **Gilbert, William** and **Wyatt, Bruce**), 21.8–814
- **Bartel, L.**
  - Effet Doppler ionosphérique de ler ordre, 21.7–175
- **Barth, C. A.**
  - Mariner-6: ultraviolet spectrum of Mars upper atmosphere (*with others*), 21.10–612
- **Barth, Roland E.**
  - New Black Ball radiation chart and radiative equilibrium temperatures computed through its use, 21.3–492
- **Bartle, R.,** *see* **Ludwig, C. B.,** 21.5–267
- **Bartlett, J. T.**
  - Condensation in a turbulent updraught, 21.1–580
- **Bartz, Joachim**
  - Ein Heizöl-Schadensfall in einem Tanklager im Rheinhafen Karlsruhe [A case of fuel oil leakage from a depot at the Karlsruhe Rhine River Port], 21.5–761
- **Barwick, Atwood S.**
  - Project Flood data report, Caribbean Sea, August 1967–August 1969, 21.2–672
- **Basharinov, A. E.**
  - Features of the method of ultrahigh frequency radiometric probing of the atmosphere from aircraft (*with others*) [Transl. from Russian], 21.9–6R
  - Investigation of radio emission and absorption of a cloudy atmosphere in the millimeter and centimeter wave bands (*with* **Kutuza, B. G.**) [Transl. from Russian], 21.9–7R
  - Issledovaniia radioizlucheniia i pogloshcheniia oblachnoĭ atmosfery v millimetrovom i santimetrovom diapazonakh voln [Investigation of radio emission and absorption in cloudy atmosphere within the millimeter and centimeter wave range] (*with* **Kutuza, B. G.**), 21.1–581
  - Opredelenie geofizicheskikh parametrov po izmereniiam teplovogo radioizlucheniia na ISZ "Kosmos-243" [Determination of geophysical parameters from measurements of thermal radio emission on the artificial Earth satellite Cosmos-243] (*with others*), 21.12–69
- **Bashlavin, D. K.**
  - Selevoĭ pavodok v Verkhoianskom khrebte (Mudflow flood in the Verkhoyansk Ridge), 21.11–429
- **Baskachenko, I. N.**
  - Geograficheskoe razmeshchenie podzemnykh mineralizovannykh vod v zone izbytochnogo uvlazhneniia evropeĭskoĭ chasti SSSR [Geographical distribution of underground mineral waters in the zone of high moistening in the U.S.S.R. European part], 21.1–794
- **Baskerville, G. L.**
  - Rapid estimation of heat accumulation from maximum and minimum temperatures (*with* **Emin, P.**), 21.5–380
- **Bass, S. V.**
  - Ozhidaemye izmeneniia vodnogo balansa basseina Volgi [Expected changes of the Volga basin water balance], 21.11–684
  - *See also* **Grin, A. M.,** 21.11–357, –424

Bassanini, P.
- Analisi delle serie temporali del geopotenziale a 500 mb su Roma [Analysis of geopotential storm series at 500 mb over Rome] (*with* **Riccucci, A.** and **Todaro, C.**), 21.3–583

Bastin, J. A., *see* **Gaitskell, J. N.**, 21.8–722

Basu, A. N.
- Computation of soil temperature from air temperature, 21.7–454

Basu, S.
- Correlation of sudden frequency deviations with solar microwave bursts (*with* **Chowdhury, S. R.**), 21.3–718

Baszczyk, Bogumia
- Wyniki dobowych pomiarow zanieczyszczen staych powietrza w Poznaniu [Results of daily measurements of air pollution at Poznan], 21.12–230

Bates, B.
- Fabry-Perot interferograms of the solar Mg II doublet and XUV solar images obtained during a stabilized Skylark rocket flight, 21.11–659

Bates, Earl M., *see* **Yee, L.**, 21.11–116

Bates, F. C.
- Theory and model of the tornado, 21.1–410

Bates, Howard F.
- Aspect sensitivity of F-layer HF backscatter echoes (*with* **Albee, Paul R.**), 21.7–174

Bates, Roy E.
- Ice conditions and prediction of freezeover on streams in the vicinity of Ft. Greely, Alaska (*with* **Saboe, Dwane**), 21.8–812
- *See also* **Bilello, Michael A.**, 21.7–827

Batra, A. K., *see* **Aditya, P. K.**, 21.3–208

Battan, Louis J.
- AAAS Symposium (on) Climate and Man [in] Boston, Dec. 26–31, 1969, 21.6–634
- Citation of cloud physics research in the Soviet Union, 21.9–292
- [Comments on] **Richard A. Schleusener**: Hailfall damage suppression by cloud seeding: a review of the evidence and [Reply by] **Schleusener**, 21.1–266
- "Hail" on a mountain in Arizona (*with* **Wislon, D. S., Jr.**), 21.4–298
- Harvesting the clouds, 21.2–43
- Measurement of vertical velocities in convective clouds by means of pulsed-Doppler radar (*with* **Theiss, John B.**), 21.7–512
- Weather modification in the U.S.S.R.—1969, 21.7–107
- *See also* **Lofgren, G. R.**, 21.5–60

Battelle Memorial Institute. Pacifi Northwest Lab., Richland, Wash.
- Hanford Radiological Sciences Researc and Development Annual Report fo 1964, 21.10–210

Batten, R. C., *see* **Stanley, E. M.**, 21.4–66

Batyreva, O. V.
- Raschet znachimosti koeffitsienta mnozhestvennoĭ korreliatsii i vybor optimal'nogo chisla predskazateleĭ [Calculatio of the significance of the multiple correlation coefficient and selection of th optimal number of predictors], 21.3–27
- Statisticheskiĭ prognoz prizemnogo davleniia na 1, 3, 5 dneĭ [Statistical, surfac pressure forecast for 1, 3, 5 days], 21.5–182

Bauer, S. J.
- Topside ionosphere of Venus and its interaction with the solar wind (*with others*), 21.12–600

Baumgart, H.
- Messwerterfassungsanlage für Klimastationen [Data collection system for climatological stations] (*with* **Höhne, W.**), 21.3–209

Baumhefner, David P.
- Global real-data forecasts with the NCAR two-layer general circulation model, 21.11–125
- Real-data forecast project at NCAR: a progress report, 21.7–83

Baxter, A. J.
- Low-energy cosmic X-ray measurements (*with* **Wilson, B. G.** and **Green, D. W.**), 21.9–474
- *See also* **Green, D. W.**, 21.5–463; **Wilson, B. G.**, 21.7–388

Bay, Roger R.
- Runoff from small peatland watersheds, 21.6–753

Bayar, Oğuz, *see* **Cöntürk, H.**, 21.1–770

Bayer, Frederick M.
- Review of research and exploration in the Caribbean Sea and adjacent waters, 21.12–734

Bayer, Karel
- Langfristige Schwankungen der troposphärischen Zirkulation über dem Nordatlantik im Zeitraum 1949–1966 [Prolonged fluctuations in tropospheric circulation over the North Atlantic from 1949 to 1966] (*with* **Bayerová, V.**), 21.6–290

Bayerová, Věra, *see* **Bayer, K.,** 21.6–290

Baynton, Harold W.

Ecology of an elfin forest in Puerto Rico, Pt. 3, Hilltop and forest influences on the microclimate of Pico del Oeste, 21.7–618

Bazhenov, V. A., *see* **Kozyrev, B. P.,** 21.4–144; 21.10–139, –272

Bazlova, T. I.

Opredelenie vertikal'nogo profilia temperatury v arkticheskoĭ atmosfere po ukhodiashchemu mikrovolnovomu izlucheniiu [The measurement of the vertical temperature profile in the Arctic atmosphere by outgoing microwave radiation], 21.4–168

Be, A. W. H., *see* **Ruddiman, W. F.,** 21.12–776

Beals, Gordon A.

Rain models for landing guidance systems, 21.5–606

Beamish, J. E.

Water development of the Canadian prairies (*with* **McCallum, F.**), 21.6–760

Bean, B. R.

Comparison of barium fluoride humidity element with the microwave refractometer for studies of rapid fluctuations of atmospheric humidity (*with* **Gilmer, R. O.**), 21.12–86

Meteorological factors affecting the fine-scale structure of the radio and optical refractive index, 21.9–190

Radio-physical studies of evaporation at Lake Hefner, 1966 and 1967 (*with others*), 21.6–539

Spectral interdependence of the radio refractivity and water vapor in the atmosphere (*with* **Emmanuel, C. B.**), 21.12–319

Beard, C. I.

Additional line-of-sight methodology to that presented by John W. Strohbehn in "The use of line-of-sight microwave propagation in remote atmospheric probing," 21.6–33

Multiwavelength line-of-sight experiment for remote atmospheric sensing (*with* **Kreiss, W. T.** and **Tank, W. G.**), 21.3–78

Phase quadrature components of the microwave scattered field in a short tropospheric path as related to the meteorological parameters (*with* **Kreiss, W. T.** and **Tank, W. G.**), 21.6–191

Beard, K. V.

Determination of the terminal velocity and drag of small water drops by means of a wind tunnel (*with* **Pruppacher, H. R.**), 21.4–285

Beard, Leo R.

Streamflow synthesis for ungaged rivers, 21.2–576

Beardsley, George F., Jr., *see* **Pak, H.,** 21.5–797

See also **Zaneveld, J. R. V.,** 21.9–713

Beasley, T. M.

Lead-210 production by nuclear devices, 21.5–362

Beatley, Janice E.

Dependence of desert rodents on winter annuals and precipitation, 21.8–374

Beattie, Byron B.

Increased water yields and improved timing of streamflow through manipulation of forest vegetation and snowpack management, 21.9–610

Beaty, E. C., *see* **Woo, S. B.,** 21.1–283

Beck, Henry V., *see* **Gregory, J. L.,** 21.1–789

Beck, Johannes Philippus, *see* **The, G. H.,** 21.9–693

Becker, Robert A.

Space Physics at the Aerospace Corporation, 21.3–146

Beckers, Charles

Report on oceanographic data analysis and interpretation and the evaluation of existing and proposed oceanographic data systems (*with others*), 21.2–686

Beckers, Jacques M.

Chromospheric inhomogeneities in sunspot umbrae (*with* **Tallant, P. E.**), 21.9–529

Intensity, velocity and magnetic structure of a sunspot region, Pt. 3, On the origin of the apparent component in sunspot umbrae (*with* **Schröter, E. H.**), 21.9–531

Intensity, velocity and magnetic structure of a sunspot region, Pt. 4, Properties of a unipolar sunspot (*with* **Schröter, E. H.**), 21.9–532

Interpretation of velocity filtergrams, Pt. 2, The velocity and intensity field of the central solar disk (*with* **Parnell, R. L.**), 21.9–530

Profiles of Fraunhofer lines in the presence of Zeeman splitting, Pt. 1, 21.12–645; Pt. 2, 21.12–646

See also **Parnell, R. L.,** 21.12–626

Beckert, Thea, *see* **Kolbig, J.,** 21.5–588

Beckinsale, Robert P.
Human responses to river regimes, 21.1–798
River regimes, 21.1–799
Bedekar, V. C.
Study of climatological and other rainfall patterns over Central India (*with* **Banerjee, A. K.**), 21.10–384
Bedel, B. L.
Meteorology and civil aviation, 21.12–4
Bedenko, V. P.
Ispol'zovanie energii solnechnoĭ radiatsii na fotosintez v posevakh iarovoĭ pshenitsy, vozdelyvaemykh v gornykh usloviiakh [Utilization of solar energy in photosynthesis in spring wheat crops cultivated in mountains], 21.1–418
Bedinger, J. F.
Measurement of winds above 200 kilometers, 21.5–517
See also **Layzer, Davis**, 21.9–174
Beedle, R. E.
Measurements of cosmic ray electrons in the energy range 4 MeV to 6 BeV at 2 g/cm^2 atmospheric depth at Ft. Churchill (*with* **Webber, W. R.**), 21.2–161
Beer, T. I.
D-region parameters measured by partial reflections at varying pulsewidths, 21.8–161
Befani, A. N.
Computation of annual normal flow of intermittent watercourses and mountain rivers in the Ukrainian Carpathians (*with* **Mel'nichuk, O. N.**), 21.1–774
Experimental study of rainfall runoff (*with others*), 21.7–605
Mountain river flood runoff theory, 21.2–547
Numerical forecasting of mountain river flood runoff on the basis of establishing territorially-generalized relationships, 21.2–542
Rainfall flood formation theory and methods of rainfall flood computation, 21.7–644
Beg, M. A., *see* **Clarke, W. B.**, 21.2–724
Begemann, F., *see* **Craig, H.**, 21.12–323
Begg, J. E., *see* **Waggoner, P. E.**, 21.6–552
Begus, V. A.
Ob izmeneniiakh intensivnosti elektronov i γ-kvantov v atmosfere [Variations of electrons and γ-quanta intensity in the atmosphere] (*with others*) [and Engli transl.], 21.5–459
Behnke, Jerold J.
Clogging in surface spreading operatio for artificial groundwater recharg 21.4–568
Empirical method for estimating month potential evapotranspiration in Neva (*with* **Maxey, G. B.**), 21.6–540
Behrman, Daniel
New world of the oceans, 21.6–825
Beĭgman, I.
On the localization, size and structure the regions of the X-ray flares on t Sun (*with others*), 21.5–717
Skorosti vozbuzhdeniia, ionizatsii i reko binatsii ionov v plazme solnechn korony [Rates of excitation, ionizati and recombination of ions in plasma solar corona] (*with others*), 21.12–640
Beilke, Siegfried
Investigation on the incorporation of su fur-dioxide into fog- and rain-drople (*with* **Georgii, H. W.**), 21.2–265
Neue Ergebnisse über das Auswasche atmosphärischer Spurengase und Aer sole [New finding concerning the i crease in atmospheric trace gases an aerosols], 21.5–217
Bekriaev, V. I., *see* **Kachurin, L. G.**, 21.1 586; 21.2–367
Belgium. [Government]
[General water conditions in Belgium] 21.11–95R
Belgium. Institut Royal Météorologique
Annuaire climatologique, 1967 [Climato logical yearbook, 1967], 21.9–195R
Annuaire climatologique, 1968 [Climato logical yearbook, 1968], 21.9–196R
Observations climatologiques [Climat logical observations], 21.9–35
Observations géophysiques [Geophysica observations], 21.9–197R
Observations d'ozone [Ozone observa tions], 21.12–214
Observations radiométriques, Statio d'Uccle, 1951–1965 [Radiometric obser vations at the Uccle Station, 1951–1965] 21.1–435
Observations synoptiques [Synoptic observations], 21.8–32
Pollution atmospherique, fumee et SO [Atmospheric pollution, smoke an SO_2], 21.8–134

Rayonnement solaire [à Uccle], 1968. [Solar radiation in Uccle, 1968], 21.1–436

Beliaev, I. P.
- K voprosu ob otsenke odnogo iz metodov gruppirovki statisticheskikh dannykh pri obrabotke gidrometeorologicheskoĭ informatsii [The problem of estimating one of the methods for the grouping of statistical data while processing the hydrometeorological information] (*with* **Mertsalova, N. B.**), 21.4–5

Beliaev, Iu. I.
- K voprosu ob okeanograficheskoĭ izuchennosti Mirovogo okeana [Oceanographic study of the World Ocean], 21.1–713
- Tropicheskie tsiklony iugo-zapadnoĭ chasti Tikhogo okeana [Tropical cyclones in the southwestern Pacific Ocean] (*with* **Kaganskiĭ, A. S.** and **Lifshits, V. M.**), 21.1–401

Beliaev, S. P.
- Elektrostaticheskiĭ metod graduirovki fotoelektricheskikh izmeriteleĭ razmerov aerozol'nykh chastits [An electrostatic method for standardizing photoelectric measuring instruments for aerosol particles] (*with* **Laktionov, A. G.**), 21.3–213
- Laboratornaia ustanovka dlia izucheniia traektoriĭ i skorosteĭ chastits aerozolia v neodnorodnom potoke [A laboratory instrument for studying the trajectories and velocities of aerosol particles in heterogeneous flows], 21.3–329

Beliaev, V. I.
- Ob″ektivnyĭ analiz polia kontsentratsii strontsiia-90 v Atlanticheskom okeane [Objective analysis of SR-90 concentration field in Atlantic Ocean] (*with others*) [and English transl.], 21.4–678

Beliaev, V. P.
- Samoletnyĭ izmeritel' srednikh znacheniĭ i pul'satsiĭ temperatury vozdukha [Airborne device for measuring the average temperature and its fluctuations], 21.5–113

Beliak, V. I., *see* **Alekseev, V. R.**, 21.12–724

Beliakov, L. N.
- Letnee opresnenie poverkhnostnykh vod moria, dinamika dreĭfovogo techeniia i dvizhenie l'da v Arkticheskom basseĭne [Summer desalination of the sea surface and dynamics of the drift current and ice movement in the Arctic Basin] [and English transl.], 21.4–781

Beliakova, S. I.
- Razvitie poliarnoĭ buri [Polar storm development] (*with* **Zaĭtseva, S. A.** and **Pudovkin, M. I.**), 21.1–374

Belich, R. B.
- Model' zonal'noĭ tsirkuliatsii atmosfery v planetarnom masshtabe do vysoty 200 km [The planetary model of the zonal circulation of the atmosphere up to 200 km] (*with others*), 21.6–305

Belikovich, V. V.
- Chastotnaia zavisimost' anomal'nogo pogloshcheniia kosmicheskogo radioizlucheniia v ionosfere v zone poliarnykh siianiĭ [Frequency relationship of anomalous absorption of cosmic noise in the ionosphere within the auroral zone] (*with others*) [and English transl.], 21.4–61
- PPSh v iiule, avguste i sentiabre 1966 g. po nabliudeniiam v avroral'noi zone [PCA in July, August and September 1966 by the observations in the auroral zone] (*with* **Benediktov, E. A.** and **Rapoport, Z. Ts.**), 21.8–162
- Radioastronomicheskii metod izmerenii velichiny poglоshcheniia radiovoln v ionosfere [A radio astronomical method of measuring the value of radio-wave absorption in the ionosphere: a review] (*with* **Benediktov, E. A.**), 21.8–163

Belinskiĭ, O. N.
- O sviazi sil'nykh vetrov v tsentral'noĭ chasti Evropeĭskoĭ territorii SSSR s kontrastami temperatury i velichinami baricheskikh gradientov davleniia [Relationship between strong winds in the central part of the European U.S.S.R. and temperature contrasts and pressure gradient values], 21.1–515
- O vliianii vertikal'nogo raspredeleniia temperatury vozdukha i vetra v nizhnem sloe atmosfery an skorost' vetra u poverkhnosti Zemli [Effect of vertical distribution of air temperature and wind in the lower atmospheric layer on surface wind speed], 21.12–477

Belkin, A. D.
- Preliminary results of photographic observations of the Earth's atmospheric instability at Novosibirsk–Akademgorodok in 1965–1966 (*with* **Voinov, S. S.** and **Fedorov, Iu. M.**), 21.10–479

Bel'kovich, O. I.
- Variation of sporadic meteor radiant density and the mass law exponent over the

celestial sphere (*with* **Pupyshev, Iu. A.**), 21.10–635

Béll, B.

Die Bedeutung des advektiven Wärmmetransportes in der Energiebilanz des Luftraumes des Karpatenbeckens [Significance of advective heat transport in the energy balance of the air space of the Carpathian Basin], 21.6–262

Kontinentalität und Ozeanität in der freien Atmosphäre über Ungarn [The continental and oceanic character of the free atmosphere over Hungary], 21.11–479

Bell, C. P.

Survey of U.H.F. tropospheric propagation measurements carried out by the BBC, 21.9–132

Bell, Frederick C.

Characteristic response times in design flood estimation (*with* **Om Kar, S.**), 21.5–650

Bell, G. J.

Probable maximum rainfall in Hong Kong (*with* **Chin, P. C.**), 21.2–261

Bell, M. A. M.

Waste management and environmental quality in Victoria, B. C., 21.2–403

Bell, William C.

Research in urban climatology at the University of Winnipeg, 21.4–351

Bellamy, John C.

Final summary report [on] Environmental data format study, 21.4–10

Belle, P., *see* **Vadot, L.**, 21.6–490

Bellman, Richard

Spectral brightness of an inhomogeneous spherical atmosphere (*with others*), 21.8–570

Belous, I. M.

O raschete maksimal'nykh stenok gololeda na provodakh liniĭ elektroperedach v gornykh raĭonakh Tian'-Shania [Computation of the thickness of glaze (walls) on electric power transmission lines in the mountainous regions of Tien-Shan], 21.5–586

Belousov, B. G.

Izmenchivost' v napravlenii S_D-tokrov v raĭone geomagnitnykh poliusov [Variability of the diversion of S_D-currents in the region of the geomagnetic poles] (*with* **Zaĭtsev, A. N.**), 21.10–152

Belousov, S. L.

Mnogourovennye kvazigeostroficheskie modeli prognoza [Multiple level quasigeostrophic forecasting models], 21.8–83

Primery resheniia nekotorykh meteorologicheskikh zadach s pomoshch'iu elektronnykh vychislitel'nykh mashin [Examples of solution of several meteorological problems with the aid o electronic computers], 21.8–84

Sposob ucheta melkomasshtabnykh sostavliaiushchikh pri ob"ektivnom analize poleĭ baricheskoĭ tendentsii i prizemnogo davleniia [A method for incorporating small-scale components into the objective analysis of tendency and surface pressure fields] (*with* **Strizhevskiĭ, L. N.**), 21.5–155

Belousova, L. E.

K voprosu ob udarnykh volnakh, generiruemykh molnieĭ [The problem of shock waves generated by lightning], 21.8–622

Belov, A. V.

Ob iskazhenii vneshnego anizotropnogo potoka galakticheskikh kosmicheskikh luchei v solnechnoi sisteme (*with* **Dorman, L. I.**), 21.9–475

Belov, P. N.

Opyt ispol'zovaniia radiatsionnoĭ informatsii so sputnikov v operativnoĭ sinopticheskoĭ rabote [An experiment in the use of radiation data from satellites in synoptic meteorology] (*with others*), 21.1–102

Belov, V. F.

Kharakteristika meteorologicheskogo i radiatsionnogo rezhima v raĭone stantsii Molodezhnoĭ [Characteristics of meteorological and radiation regimes in the Molodezhnaya Station region] (*with* **Kreem, E. I.**), 21.3–493

Bel'skaia, N. N.

Analiz evoliutsii oblachnogo vikhra tsiklona po sputnikovym dannym [Analysis of the evolution of a cyclone cloud vortex based on satellite data] (*with* **Chuprin, S. F.**), 21.12–376

Opyt ispol'zovaniia radiolokatsionnoi informatsii dlia utocheniia prognoza livneĭ i groz [Experimental use of radar information for more precise shower and thunderstorm forecasting] (*with* **Minakova, N. E.**), 21.12–153

Bel'skii, S. A.

O vozmozhnom mekhanizme meteornoĭ variatsii intensivnosti kosmicheskikh luchei [Possible mechanism of meteor variation of the intensity of cosmic rays], 21.12–434

Belton, M. J. S., *see* **Fink, U.**, 21.6–705

elukhina, G. V., *see* **Mel'nik, Iu. S.**, 21.9–273
embrick, Marion Joy, *see* **Davey, B. G.**, 21.3–704
en Harrath, A.
  Mesure de profils d'humidité et de tensions au cours d'infiltrations mono et bidimensionnelles [Measurement of profiles of humidity and tensions during single and bidimensional infiltrations] (*with* **Bentz, A.** and **Sine, L.**), 21.1–648
en Osman, Mohamed Essaad
  Tunisia, 21.11–95R
enarie, M.
  Sur l'utilisation de certaines matières plastiques pour le prélèvement et la conservation des échantillons d'atmosphères polluées [On the use of certain plastic materials for obtaining and preserving samples of polluted air] (*with* **Bui, The Chuong**), 21.7–58
encze, P.
  Electron density (N(h)) profiles above Bekescsaba, Hungary, Pt. 1, Sunspot minimum, quiet days, 21.11–504
  Seasonal variations of the virtual height of sporadic E(h'Es) at middle latitudes and its possible origin, 21.6–218
  Szporadikus E ionizáció közepes földrajzi szélességen [Sporadic-E at medium latitudes], 21.10–153
endelow, V. C.
  A determination of the albedo of Morecambe Bay north of a line from Aldingham to Bare, 21.7–325
ender, Donald L., *see* **Scully, D. R.**, 21.5–624
endini, Carlo
  La grande crue du 4 Novembre 1966 [The great flood of Nov. 4, 1966], 21.10–711
enedict, R. H., *see* **Jones, M. D.**, 21.9–239
enediktov, E. A., *see* **Belikovich, V. V.**, 21.8–162, –163
engtsson, L.
  Experiment in computerized flight planning, 21.10–119
  Numerical prediction of upper winds and temperatures, and presentation of the numerical forecasts for aeronautical purposes, 21.10–101
enilov, A. Iu.
  Eksperimental'nye dannye o melkomasshtabnoĭ morskoĭ turbulentnosti [Experimental data on small scale sea turbulence] [and English transl.], 21.2–739
Ben'kova, N. P.
  Dinamika magnitosopriazhennykh oblastei v sloe F2 ionosfery [Dynamics of magnetically conjugated regions in the F2-region of the ionosphere], 21.12–291
  Observations synoptiques de la couche F2 dans les régions magnétiquement conjuguées de Kerguelen et Arkangelsk [Synoptic observations of the F2-layer in the magnetic conjugate regions of Kerguelen and Arkangelsk] (*with others*), 21.6–219
Bennett, Carrie F., *see* **Chow, T. J.**, 21.5–240
Bennett, Escal S.
  Precipitation probabilities in weather forecasts, 21.11–384
Bennett, I.
  Correlation of daily insolation with daily total sky cover, opaque sky cover and percentage of possible sunshine, 21.2–118
Bennett, J. A.
  On the application of variation techniques to the ray theory of radio propagation, 21.8–699
Benny, Baruch, *see* **Milankovitch, M.**, 21.4–131
Benson, Carl S.
  Glaciology of the Greenland and Antarctic ice sheets, 21.8–438
  Role of air pollution in Arctic planning and development, 21.7–134
  Seasonal snow cover of Arctic Alaska, 21.10–400
Bent, Rodney B.
  Investigations of global thunderstorm activity from the Ariel-3 satellite, 21.10–255
Benton, George S.
  Some general comments on meteorological and weather modification activities in the Soviet Union, 21.7–108
  Transport processes at the interface between ocean and atmosphere, 21.2–769
Bentz, A., *see* **Ban Harrath, A.**, 21.1–648
Benwell, G. R. R.
  Further work with the Bushby–Timpson 10-level model (*with* **Timpson, Margaret S.**), 21.1–215
  Pressure oscillation in a 10-level atmospheric model (*with* **Bretherton, F. P.**), 21.1–216
Beran, Ferdinand
  Analytische Studien über die Barytlappenmethode zum Nachweis SO_2-hältiger Emissionen [Analytical studies on the barite-soaked rag method of detecting

SO₂ emissions] (*with* **Perkonigg, J.**), 21.6–105

Berbecel, Octavian
- Contributiile meteorologiei moderne la combaterea bolilor si dăunătorilor la plantele de cultură [Contribution of modern meteorology to disease and enemies control at culture plants] (*with* **Socor, Elena** and **Iliescu, Cornelia**), 21.8–533
- Influența condițiilor agrometeorologice asupra ritmului de acumulare a masei vegetative la porumb [The impact of agrometeorological conditions on the green mass gathering rate in corn] (*with* **Rogojan, Iu.**), 21.9–383

Berberian, George A., *see* **Chew, Frank**, 21.10–822

Bercovitch, M., *see* **Carmichael, H.**, 21.7–399, -400

Berenbeĭm, D. Ia.
- Gidrometeorologicheskie usloviia obledeneniia sudov [Hydrometeorological conditions of ship icing], 21.5–587

Bereridge, G. S. G.
- Sulphur emission to the atmosphere (*with* **MacArthur, C. A.**), 21.12–229

Beresneva, I. A.
- Sutochnyi khod otnositel'noi vlazhnosti vozdukha na severo-zapade Evropeiskoi territorii SSSR [Daily march of the relative humidity of the atmosphere in the northwest European U.S.S.R.], 21.7–522

Berezin, Iu. V., *see* **Gusev, V. D.**, 21.8–591

Berg, Joachim
- "International Commission for the protection of the River Rhine against pollution" as an example of intergovernmental agreement in the field of water conservation, 21.6–784

Berg, Otto E.
- Pioneer-8 cosmic dust experiment (*with* **Richardson, F. F.**), 21.5–691

Berg, T. G. Owe
- Apparatus for the study of charged particles and droplets (*with* **Gaukler, T. A.**), 21.12–539
- Applications of high-speed photography in the study of atmospheric processes (*with* **Gaukler, T. A.** and **George, D. C.**), 21.5–103
- Confinement of charged particles in a nonuniform AC field (*with* **Gaukler, Thomas A.**), 21.7–542
- Electrification experiments with AgI i the system water vapor, liquid wate and ice (*with* **Gaukler, T. A.**), 21.2–36
- Ice nucleation by silver iodide, 21.12–188
- Nucleation and growth in cloud seeding 21.5–199

Berge, G. L.
- High-resolution interferometry of Venu at 3.12-cm wavelength (*with* **Greiser E. W.**), 21.4–460

Berge, Hans
- Möglichkeiten zur polarographische Bestimmung einiger Hauptkomponente im Meerwasser [Possibilities for th polarographic determination of sc principal constituents of seawater (*with* **Brügmann, L.**), 21.12–748

Bergen, James D.
- Cold air drainage on a forested mountai slope, 21.4–227
- Heated thermopile anemometer compare with sensitive-cup anemometer in natur airflow, 21.6–81
- Nocturnal air temperature on a foreste mountain slope, 21.11–302
- Nocturnal radiation loss estimates for forest canopy, 21.10–271

Berger, K.
- New results of lightning observation (*with* **Vogelsanger, E.**), 21.8–623

Berger, Rainer
- Equilibration of atmospheric carbon di oxide with sea water: possible enzy matic control of the rate (*with* **Libby W. F.**), 21.1–277

Bergeron, T.
- Cloud physics research and the futur fresh-water supply of the world, 21.8–36

Berharz, Reinhold
- Photometric brightness asymmetry durin a lunar eclipse, 21.11–569

Berindan, Cornelia
- Interrelation pollution atmosphérique e espaces verts en tant que principe pro tecteur des villes industrielles [Interre lation of atmospheric pollution and th green belt as the main protection of in dustrial cities], 21.6–169

Beritashvili, B. Sh.
- Razmery vershin konvektivnykh oblako [Dimensions of convective cloud tops (*with* **Lominadze, V. P.**), 21.10–371

Beriulev, G. P.
- Uravnenie radiolokatsii osadkov i kali brovka radiolokatora pri izmerenii otra zhaemosti mnozhestvennoĭ tseli [Equa

tion of radar detection of precipitation and radar calibration for multipurpose reflectivity measurements] (*with others*), 21.1–194

Berkofsky, Louis
- Numerical model for investigation of upper atmosphere effects, 21.3–360
- Some numerical results from a model for hurricane prediction, 21.4–107

Berkshire, Francis H.
- Mountain waves in the stratosphere, 21.6–525

Berliand, M. E.
- Basic problems of atmospheric diffusion and air pollution [Transl. from Russian], 21.9–8R
- Chief problems of atmospheric diffusion and air pollution [Transl. from Russian], 21.9–9R
- O rasprostranenii atmosfernykh primeseĭ v usloviiakh goroda [Distribution of atmospheric admixtures in town conditions], 21.12–228
- Theory of atmospheric diffusion under fog conditions (*with* **Onikul, R. I.** and **Riabova, G. V.**), 21.9–10R

Berliand, T. G.
- Climatological research into the thermal balance [Transl. from Russian], 21.9–11R

Berman, A.
- Thermoregulation in the domestic fowl exposed to a natural climate (*with others*), 21.11–465

Bernachi, D. A.
- Stratus behind cold fronts at Regina (*with* **Medlicott, T. G.**), 21.11–278

Bernard, E. A.
- Development in Africa and the organization of meteorological services, 21.12–5
- Economic benefits of meteorological services in developing countries, 21.1–60

Bernard, Etienne
- Théorie des corps et instruments psychrométriques fondée sur les lois de la diffusion en (x, z) dans la couche limite laminaire, sous un gradient thermique [Theory of psychrometric bodies and instruments, based on the laws of diffusion in (x, z) in the laminar boundary layer, under conditions of a thermal gradient], 21.8–66

Bernarie, M.
- Appareil simple, autonome et portable pour la mesure de la concentration des polluants solides et gazeux dans l'air [Simple, autonomous, and portable apparatus for measuring the concentration of solid and gaseous pollutants in the air] (*with* **Bodin, D.**), 21.6–104

Bernet, G.
- Contribution à l'étude des dépressions tropicales dans le Sud–Ouest de l'Ocean Indien [Contribution to the study of tropical depressions in the southwest Indian Ocean] (*with* **Laplace, L.**), 21.12–380
- Recherche d'un mode de formation des lignes de grains en Afrique Centrale [Research into the way squall lines form in Central Africa], 21.12–398

Bernhardt, H.
- Artificial aeration of lakes and drinking water reservoirs as a measure against progressive eutrophic processes, 21.9–662

Bernhardt, K.
- Der feuchtadiabatische vertikale Gradient der virtuellen Temperatur [The saturation-adiabatic vertical gradient of the virtual temperature], 21.5–381
- Probleme des Warmehaushaltes der tropospharischen Grundschicht und seine Beziehungen zur atmospharischen Dynamik [Problems of the tropospheric boundary layer heat balance and its relationship to the dynamics of the atmosphere], 21.12–405

Berni, A.
- Surveying campaign for snowfall measurement carried out by ENEL from February–June 1966 (*with* **Giacanelli, E.**), 21.8–439

Bernier, J., *see* **Jacquet, J.**, 21.6–626

Bernini, F.
- Rilievo delle correnti di marea con metodi aerofotogrammetrici: considerazioni su di una prova effettuata nella Laguna di Venezia [Survey of tidal currents by aerial photogrammetric methods: comments on a test carried out on the Venice Lagoon] (*with* **Sgavetti, M.**), 21.9–747

Bernstein, Theodore
- Combination wind direction and velocity transducer—WINDAV (*with* **Miller, J. G.**), 21.6–79

Bernstein, W.
- Energy spectrometer for energetic (1–25 keV) neutral hydrogen atoms, 21.11–512
- Measurements of precipitated 1–20 keV protons and electrons during a breakup aurora, 21.11–289

See also **Wax, R. L.**, 21.11–527

Berrit, G. R.
Eaux dessalées du golfe de Guinée [Unsalted waters of the Gulf of Guinea], 21.4–691

Berry, Charles A.
Lunar medicine, 21.3–722

Berry, Ed., *see* **Chisholm, J.**, 21.6–151

Berry, Edwin X.
Airborne atmospheric research facility (*with* **Chisholm, J.**), 21.4–17
Convective motion as indicated by visual tracers, 21.3–634
See also **Nielsen, K. W.**, 21.5–278

Berry, P. R.
Der Mensch im Hoehenklima [Man in a high-altitude climate], 21.8–534

Berson, F. A.
Fallout from storm anvils, 21.12–395

Bertrand, J.
Influence des saisons sur la concentration en noyaux glaçogènes à Abidjan, 21.5–577

Bertsch, D. L.
Relative abundance of iron-group nuclei in solar cosmic rays (*with* **Fichtel, C. E.** and **Reames, D. V.**), 21.7–396

Berz, Gerhard
Berechnungen des Energiehaushaltes der Erdoberfläche als Beitrag zum Studium von Ausbreitungsvorgängen [Computation of the energy budget of the Earth's surface as a contribution to the study of diffusion processes], 21.7–248
Untersuchungen zum Wärmehaushalt der Erdoberfläche und zum bodennahen atmosphärischen Transport [Studies of the heat budget of the Earth's surface and of atmospheric transport at ground level], 21.10–214

Besiadovskii, E. A.
Meteorologicheskiĭ raketnyĭ kompleks, primeniaiushchiĭsia dlia zondirovaniia atmosfery [Meteorological rocket complex used for atmosphere probing], 21.11–68

Beskin, V. A.
Actinometric equipment of Soviet weather satellites (*with others*) [Transl. from Russian], 21.11–5R

Beşleagă, Nicolae
Calculul hărţilor de geopotenţial de la nivelul de 700 mb cu ajutorul maşinilor electronice de calcul [The calculation of 700 mb geopotential level maps by means of electronic computers] (*with* **Stoian, R.** and **Adrian, I.**), 21.3–228
Computation of geopotential fields to 50 and 700 mb. isobaric levels by CET 50 computer (*with* **Stoian, R.** and **Amalfiesei, R.**), 21.5–158
Consideraţii asupra analizei obiective cîmpurilor de geopotenţial [Considerations on objective analysis of geopotential fields] (*with others*), 21.3–220

Bespalov, A. I.
Nekotorye dannye o zagriaznenii atmosfernogo vozdukha mysh'iakom dymovykh gazov elektrostantsiĭ Rostovskoĭ oblasti [Certain data on atmospheric pollution with arsenic from the gas electric power stations of the Rostovskaya oblast] (*with* **Bolovina, V. N.** and **Kosorotova, F. P.**), 21.9–122
Opyt raboty oblastnoĭ sanepidstantsii po likvidatsii zagriazneniia atmosfernogo vozdukha produktami goreniia ugol'nykh otvalov shakht Rostovskoĭ oblasti [Work of the regional sanitary epidemiologic station in the control o atmospheric pollution with combustion products of coal dumps at the mines o the Rostov Region] (*with* **Bolovina V. N.**), 21.1–284

Bespalov, D. P., *see* **Leningrad. Glavnaia Geofizicheskaia Observatoriia**, 21.10–46R; **Rusin, N. P.**, 21.9–73R

Besprozvannaia, A. S.
Geomagnitnyĭ kontrol' geograficheskogo raspredeleniia poludennoĭ ionizatsii sloia F2 [Geomagnetic control of the geographic distribution of noon ionization of F2-layer], 21.2–65
O tsiklicheskikh variatsiiakh anomal'no ionizatsii sloia F2 v raione geomagnitnogo poliusa [Cyclic at variations o anomalous ionization of the F2-layer i the region of the geomagnetic pole (*with* **Iudovich, L. A.**), 21.12–292
On the nature of the anomalous nocturnal ionization of the F2-layer in high latitudes, 21.10–154

Bessemoulin, J.
Formulation des équations fondamentales de la météorologie en considérant l'atmosphère comme un milieu fluide turbulent [Formulation of fundamental meteorology equations in considering the atmosphere as a turbulent fluid medium], 21.3–6

Bessiadovski, E. A.
  Ensemble de fusée Météorologique pour le sondage de l'atmosphère (*with others*) [Meteorological rocket for atmospheric sounding], 21.3–125
Bester, M. D.
  Aerial spraying of the Vaal Dam to control evaporation, 21.8–348
Bestsennaia, M. A.
  Naturnoe izuchenie razbavleniia stochnykh vod v rekakh i proverka metodov rascheta [Natural study of the dilution of runoff waters in rivers and verification of calculation methods], 21.2–596
Betson, Roger P.
  Source areas of storm runoff (*with* **Marius, John B.**), 21.8–454
Bettinger, R. T.
  Experiment relative to the vertical distribution of atmospheric ozone (*with* **Bohse, J.**), 21.2–62
Beverage, Joseph P.
  Estuarine studies in upper Grays Harbor, Washington (*with* **Swecker, M. N.**), 21.6–785
Beyer, Martin G.
  Groundwater production from the bedrock of Sweden, 21.4–534
Beyers, N. J.
  Measurements from a zero-pressure balloon in the stratopause (48 km) (*with* **Miers, B. T.**), 21.12–60
  See also **Ballard, H. N.**, 21.11–77
Beynon, W. J. G.
  Model electron density profiles for the lower ionosphere (*with* **Rangaswamy, S.**), 21.3–371
  Physics of the ionosphere, 21.8–164
Beznis, L. I.
  Rezul'taty radiolokatsionnogo izmereniia osadkov na ploshchadi v raĭone g. Valdaia [Results of radar measurements of precipitation in the Valdai district] (*with others*), 21.1–107
Bezruchko, I. N., *see* **Alabushev, V. A.**, 21.8–481
Bezuglaia, E. Iu.
  Inversions of lower troposphere and their influence on the air pollution of the City of Moscow [Transl. from Russian], 21.9–12R
  O mezhdunarodnom simpiziume po meteorologicheskim aspektam zagriazneniia atmosfery [International Symposium on Meteorological Problems of Air Pollution] [and English transl.], 21.3–330
Bezverkhnii, Sh. A.
  Izluchatel'naia i otrazhatel'naia sposobnost' l'da v infrakrasnoi oblasti spektra [Emissivity and reflectivity of ice in the infrared region] (*with others*), 21.12–413
Bhagiratha Rao, E., *see* **Rama Rao, C.**, 21.10–182
Bhandari, N.
  Rates of production of ^{24}Na and ^{28}Mg in the atmosphere by cosmic radiation (*with* **Fruchter, J.** and **Evans, J.**), 21.7–221
Bhargava, B. N.
  Quasi-biennial oscillation in precipitation at some Indian stations (*with* **Bansal, R. K.**), 21.9–314
Bhartendu, —
  Atmospheric electric potential gradient variation at land stations, 21.8–603
  Audio frequency pressure variations from lightning discharges, 21.2–393
  Electric potential gradient measurements from a radioactive collector at Meteorological Research Station, 21.12–583
  Thunder: a survey, 21.8–664
Bhaskara Rao, A.
  Some aspects of measuring salinity of rain water (*with* **Padmanabhan, G. R.** and **Salhotra, S. K.**), 21.3–198
Bhat, S. G.
  ^{234}Th/^{238}U ratios in the ocean (*with others*), 21.3–790
Bhatki, Kashinath S.
  Measurement of tracer indium in rain samples (*with* **Dingle A. N.**), 21.11–389
Bhatnagar, A.
  Method to obtain a solar velocity map directly in one spectroheliogram (*with* **Stenflo, J. O.**), 21.3–728
  Stage and frequency of floods in central India, 21.10–703
Bhatnagar, V. P.
  Daytime ion composition in the height range of 150–1500 km for solar minimum condition, 21.3–347
  See also **Tyagi, T. R.**, 21.3–165
Bhattacharya, A. P., *see* **Gupta, S. N.**, 21.9–584
Bhavsar, P. D.
  Neutral atmosphere winds above 100 km (*with* **Narayanan, M. S.** and **Ramanujarao, K.**), 21.7–503
  See also **Kasturi Rangan, K.**, 21.9–480
Bhonsle, R. V., *see* **Alurkar, S. K.**, 21.11–550

Bhumralker, C. M., *see* **Estoque, M. A.,** 21.1–355

Bibarsov, R. Sh., *see* Babadzhanov, **P. B.,** 21.9–255

Bibik, V. A.
- Properties of water dynamics in the southeastern Black Sea and the distribution of oceanographic elements [Transl. from Russian], 21.2–677

Bidasio, Defendente
- Radiazione solare a Conegliano nel periodo 1959–1966 [Solar radiation at Conegliano in the period 1959–1966], 21.2–114

Bigarella, João José
- Processes and environments of the Brazilian Quaternary (*with* **Mousinho, M. R.** and **Silva, J. X. Da**), 21.6–647

Biggar, J. W., *see* **Wildung, R. E.,** 21.7–658

Biggs, W. Gale
- Measurement and analysis of the structure of turbulence near the ground with a hot wire anemometer system, 21.1–482

Bigler, Stuart G.
- Dial a radar, 21.3–91

Bilbro, J. D., Jr., *see* **Wanjura, D. F.,** 21.6–434

Bilello, Michael A.
- Ice thickness observations, North American Arctic and subarctic 1964–65, 1965–66 (*with* **Bates, Roy E.**), 21.7–827
- Prediction of freeze-over on the Delta River and Jarvis Creek, 21.8–812
- Relationships between climate and regional variations in snow-cover density in North America, 21.9–13R
- Surface measurements of snow and ice for correlation with aircraft and satellite observations, 21.1–625

Billard, Francois
- Formation and evolution of radiolysis particles, 21.12–511
- *See also* **Bricard, J.,** 21.7–551

Billings, Donald E., *see* **De Peralta, M. T. C.,** 21.10–654

Billings, Gale K.
- Temporal variation of alkaline earth element/chlorinity ratios in the Sargasso Sea (*with others*), 21.4–680
- Vibrating water drops in electric fields (*with* **Holland, D. H.**), 21.6–555

Birca, Ioan, *see* **Dobrea, I.,** 21.12–564

Birch, J. R.
- Observation of atmospheric absorption using submillimetre maser sources (*with* **Burroughs, W. J.** and **Emery, R. J.**), 21.3–638

Birchfield, G. E.
- Response of a circular model great lak to a suddenly imposed wind stress, 21.9–266

Bird, H. H.
- Transverse wave propagation and instabilities within the magnetosphere (*wit* **Schmidt, G.**), 21.5–460

Bird, J. F.
- Visual transient phenomenon (*with* **Mowbray, G. H.**), 21.4–362

Biriulin, I. A., *see* **Gusev, V. D.,** 21.8–591

Birkemeier, William P.
- Identification of atmospheric structure b coherent microwave sounding, 21.6–34
- Observations of atmospheric structure wit phase-coherent measurements of troposcatter multipath and Doppler shift (*with* **Thomson, D. W.**), 21.9–133
- Troposcatter signal characteristics simulated by random layered scatterer arrays, 21.11–214

Birkenmajer, Krzysztof, *see* **Polish Spitsbergen Expeditions, 1957–1960,** 21.4–1

Birman, B. A.
- Avtomaticheskiĭ kontrol' operativnoĭ morskoĭ meteorologicheskoĭ informatsii [Automatic checking of operational marine meteorological information], 21.1–93
- Mashinnyĭ kontrol' temperatury tochki rosy v meteorologicheskikh nabliudeniiakh [Mechanized checking of the dew-point temperature in meteorological observations], 21.11–363

Birmingham, T. J.
- Charged particle diffusion by violation of the third adiabatic invariant (*with* **Northrop, T. G.** and **Fälthammar, C. G.**), 21.7–364

Birnbaum, A.
- Quadrupole transitions in the H_2, HD, and D_2 molecules (*with* **Poll, J. D.**), 21.6–696

Bisberg, Arthur
- Expendable dew point hygrometer, 21.12–95

Biswas, K. R., *see* **Chaterjee, R. N.,** 21.5–203

Biswell, Harold H.
- Water control by rangeland management, 21.6–761

Bittner, Fred, *see* **Oliver, Vincent J.,** 21.8–48

Biuro, E. D.
  Measurements of some neutral components of the Arctic thermosphere (*with others*), 21.6–198
  Vodorod i nekotorye drugie komponenty verkhneĭ atmosfery Arktiki [Hydrogen and some other components of the upper atmosphere in the Arctic] (*with* **Martynkevich, G. M.**, and **Maliarova, G. V.**), 21.5–309
Biutner, E. K., *see* **Bathovskiĭ, R. S.**, 21.7–839
Bizunov, V. P.
  Rezul'taty rascheta ionizatsii atmosfery beta-chastitsami raspada produktov deleniia [Results of calculation of the ionization of the atmosphere by β particles of decay of fission products] (*with* **Zykov, I. K.**), 21.12–584
Bjerknes, J.
  Large-scale ocean-atmosphere interaction, 21.12–2R
  Satellite mapping of the Pacific tropical cloudiness (*with others*), 21.6–589
Bjorking, L., *see* Blackie, J .R., 21.9–351
Black, Peter E.
  Runoff from watershed models, 21.12–692
Black, Robert E.
  Cyclones and anticyclones in Europe, 21.11–264
Black, Robert F.
  Saline discharges from Taylor Glacier, Victoria Land, Antarctica, 21.1–764
Black, T. A.
  Prediction of evaporation, drainage, and soil water storage for a bare soil (*with* **Gardner, W. R.** and **Thurtell, G. W.**), 21.6–144
Blackadar, A. K.
  Effect of stability on the wind profile under conditions of inhomogeneous terrain roughness (*with* **Glass, P. E.** and **Panofsky, H. A.**), 21.1–357
  Investigation of the turbulent wind field below 150 m altitude at the Eastern Test Range (*with others*), 21.3–588
  Wind profiles, spectra, and cross-spectra over homogeneous terrain (*with* **Panofsky, Hans A.**), 21.7–499
Blackburn, James Harvey
  Study of clear-air-turbulence from detailed wind profiles over Cape Kennedy, Florida, 21.10–325
Blackburn, Maurice, *see* **California. Univ., San Diego**, 21.9–110R
Blackie, J. R.
  Lysimeter study of the water use of sugar at Arusha Chini (*with* **Bjorking, L.**), 21.9–351
  Performance of the Lintronic solarimeter in East Africa, 21.10–73
Blackwell, M. J.
  Bicentenary of Kew observatory, 21.3–95
Blad, B. L., *see* **Idso, S. B.**, 21.1–438
Blade, Ellis
  Sulfur dioxide air pollution in New York City: statistical analysis of twelve years (*with* **Ferrand, Edward F.**), 21.7–135
Blagoveshchenskii, E. N.
  Nekotorye dannye po ispareniiu s pochvy v predgornykh i gornykh raionakh Tadzhikistana [Some data on evaporation from the soil in the foothills and mountains on Tadzhikistan], 21.7–525
Blair, A. Hunter
  Simplification of ground-water data used for an analogue of a coastal aquifer, 21.2–560
Blair, Donald N.
  Aging of silver iodide–sodium iodide generator effluent in moist and dry air (*with* **Davis, B. L.**), 21.3–308
Blake, C. J.
  Root survey methods for hydrological experiments (*with* **Branson, F. A.**), 21.10–422
Blake, Ian
  Climate, survival and the second-class societies in Palestine before 3000 B.C., 21.7–671
Blake, J. B., *see* **Paulikas, G. A.**, 21.7–381
Blamont, J. E.
  New experimental description of the geographical temperature distribution in the Southern Hemisphere near the 100-millibar level during winter and spring (*with* **Heinsheimer, T. F.** and **Pommereau, J. P.**), 21.7–451
  See also **Barat, J.**, 21.6–480
Blanc, Daniel
  Mesures du flux de thoron sortant du sol et de la repartition verticale du radon et du thoron dans l'atmosphère, au niveau du sol [Measure of the thoron emission from the ground and the vertical distribution of radon and thoron in the atmosphere at ground level] (*with others*), 21.3–398
Blanc, Paul
  Nouvelles donées sur les caractéristiques chimiques et isotopiques des eaux du

complexe quaternaire de la région de Thonon-les-Bains (Haute-Savoie) [New data on the chemical and isotopic characteristics of the Quarternary complex in the Thonon-les-Bains (Haute-Savoie) region] (*with* **Dray, M.** and **Olive, P.**), 21.6–768

Blanchard, Duncan C.
- Experiments on the generation of raindrop-size distributions by drop breakup (*with* **Spencer, A. T.**), 21.6–612
- Oceanic production rate of cloud nuclei, 21.6–567

Blanchard, J. W.
- Calculation of weather minima, Pt. 1, 21.6–575

Blanchard, M. B., *see* **Ferry, G. V.**, 21.12–617

Blanchet, J.
- Généralisation aux grandes échelles des équations de la mécanique des fluides [Generalization on the large-scale equations of the mechanics of fluids], 21.6–273
- Prévision à l'échelle locale: sols hétérogenes, Pte. 2 [Forecasting on a local scale: heterogeneous surfaces] (*with* **Fons, C.** and **Zeĭtunian, R. Kh.**), 21.3–286; Pte. 3, 287

Blanco, Abel J., *see* **Hoidale, G. B.**, 21.4–143; 21.12–240; 21.1–296

Blanco Criado, M., *see* **Cadenas de Llano, F. L.**, 21.11–686

Blank, J. L., *see* **Grobman, W. D.**, 21.9–491

Blanton, Jackson
- Energy dissipation in a tidal estuary, 21.12–806
- *See also* **Vukovich, Fred M.**, 21.5–493

Bleeker, J. A. H.
- Diffuse cosmic X-ray background from 20 to 220 keV (*with* **Deerenberg, A. J. M.**), 21.5–461

Blenaru, D., *see* **Leonov, V. Kh.**, 21.12–436

Blevin, W. R.
- Comparison of two radiometric scales (*with* **Collins, B. G.** and **Brown, W. J.**, 21.10–74

Blifford, Irving H., Jr.
- Size and number distribution of aerosols in the continental troposphere (*with* **Ringer, Lynn D.**), 21.1–566

Blinnikova, Z. G.
- O kriteriiakh nadezhnosti prognozov anomalii sredneĭ mesiachnoĭ temperatury vozdukha [Reliability criteria for predicting anomalies of the average monthly air temperature] (*with* **Ped', D. A.**) 21.3–268

Blinova, E. N.
- Metod resheniia nelineĭnoĭ planetarnoĭ zadachi dolgosrochnogo prognoza meteorologicheskikh elementov [A method of solving nonlinear planetary problems of long-term forecasts of meteorological elements], 21.3–282
- Reshenie nelieĭnoĭ zadachi o nestatsionarnykh atmosfernykh dvizheniiakh planetarnogo masshtaba [Solution of the nonlinear problem of stationary atmospheric motions of planetary scale], 21.7–261
- Solution to the nonlinear problem of nonstationary global atmospheric movements [Transl. from Russian], 21.3–428

Bliokh, P. V.
- Fokusirovka radiovoln iskusstvenno sozdannoĭ ionosfernoĭ linzoĭ [Radio-wave focusing by an artificially-made ionospheric lens] (*with* **Briukhovetskiĭ, A. S.**) [and English transl.], 21.5–338

Bliumina, L. I.
- Razvitie protsessov v troposfere i stratosfere pri znachitel'nykh anomaliiakh temperatury vozdukha v sezonakh pervoi poloviny leta [Development of tropospheric and stratospheric processes during significant air temperature anomalies during the first half of summer], 21.9–244
- *See also* **Aristov, N. A.**, 21.11–124

Block, L. P.
- Field aligned currents and auroral precipitation (*with* **Fälthammar, C. G.**), 21.6–220

Blokh, Ia. L.
- Bol'shie proportsional'nye schetchiki dlia issledovaniia variatsiĭ kosmicheskikh lucheĭ [Large-size proportional counters for cosmic-ray variation study] (*with others*), 21.9–230
- Metod nepreryvnogo opredeleniia nulevogo urovnia neĭtronnogo monitora [Method of continuous definition of the zero level of the neutron monitor], 21.7–397

Bloom, Arthur L.
- Surface of the Earth, 21.10–676

Bloom, Sandra C., *see* **Degler, S.**, 21.4–409

Blum, A., *see* **Plaut, Z.**, 21.10–437

Blum, Harold F.
- Is sunlight a factor in the geographical distribution of human skin color?, 21.4–408

Blumen, W.
Auroral heating and internal gravity waves, 21.10–500
Effect of horizontal shear flow on geostrophic adjustment in a barotropic fluid (*with* **Washington, W. M.**), 21.5–370

Blumer, M.
Oil pollution of the ocean, 21.5–784

Bobeica, Alexandru, *see* **Panait, Ioan,** 21.7–816

Bobov, N. G.
Formirovanie plastovykh zalezheĭ l’da [The formation of stratified ice deposits], 21.10–315

Bobyleva, I. M.
Strukturnye kharakteristiki prizemnogo vetra dlia nuzhd aviatsii [Structural characteristics of surface wind for needs of aviation] (*with* **Kogan-Beletskiĭ, G. I.** and **Laĭkhtman, D. L.**), 21.3–586

Boccacci, Dino B. F., *see* **Grandi, Alberto L.,** 21.11–95R

Bochkov, A. P.
Forest influence on river flows, 21.11–481

Bock, Paul
Applications of space data to water resources, 21.3–147

Boddington, T. J.
Water resource studies in semi-arid areas, 21.8–770

Bodin, D., *see* **Benarie, M.,** 21.6–104

Bodine, B. R.
Hurricane surge frequency estimated for the Gulf Coast of Texas, 21.3–458

Bodolai, Emma (Jakus), *see* **Bodolai, István,** 21.9–302; 21.10–106

Bodolai, István
Módszer a prefontális szél helyi előrejelzésére [Method for the local forecasting of prefrontal wind] (*with* **Bodolai, E. (J.)**), 21.10–106
Some mesoscale particularities in the pattern of cyclonal precipitations (*with* **Bodolai, E. (J.)**), 21.9–302

Bodurtha, F. T.
[Discussion of] **H. Whaley:** A proposed Canadian standard for estimating atmospheric dispersion of combustion source pollution from chimneys and [Reply by] **Whaley** (*with* **Smith, M. E.**), 21.6–482

Bodvarsson, Gunnar
On the temperature of water flowing through fractures, 21.2–558
See also **Mesecar, Roderick S.,** 21.7–847

Böcker, T.
Karstic water research in Hungary, 21.11–707

Böhme, Annelies
Spectrum of type IV bursts at cm and dm waves and its relation to PCA, Pt. 1, The mean spectral behaviour and theoretical consequences, 21.11–552
Tendencies to repeating of type-IV bursts and their relations to the stage of development of the sunspot group, 21.2–420

Böhme, W.
Uber den etwa 2jährigen Zyklus der allgemeinen Zirkulation und seine Ursachen [The approximately 2-year cycle of the general circulation and its origin], 21.8–223

Boenkova, N. M.
Sezonnaia anomaliia sloia F2 i korpuskuliarnaia radiatsiia [Seasonal anomaly of the F2-layer and corpuscular radiation], 21.10–8R

Boer, J. H.
Influence of the sea on the distribution of lightning and rain over a coastal area (*with* **Feteris, P. J.**), 21.9–205

Börresen, Jan A.
Homogeneity of the tropospheric refractive-index structure (*with* **Gjessing, Dag T.**), 21.10–206
See also **Gjessing, D. T.,** 21.10–208

Boersma, L., *see* **Kowsar, A.,** 21.11–323

Boese, Robert W., *see* **Giver, L. P.,** 21.6–708

Boffey, Philip M.
Environment, 21.5–239

Bogatyr’, L. F.
Izmenchivost’ letnikh osadkov razlichnoĭ intensivnosti na Eksperimental’nom meteorologicheskom poligone [Changeability of summer precipitation of different intensity on the Experimental Meteorological Polygon], 21.7–594

Bogdan, E. A.
Izmenchivost’ okeanskikh voln [Ocean wave variability] (*with others*), 21.2–785

Bogdanov, A. A.
Issledovanie poperechnogo secheniia rasseianiia puny dlia radiovoln na modeliakh v opricheskom diapazone [Investigation of lunar radio-wave scattering cross section on models in optical range], 21.11–567

Bogdanov, K. T.
Chislennoe reshenie zadachi o rasprostranenii prilivnykh voln v Mirovom okeane [Numerical solution of the problem of tidal wave propagation in the World Ocean] (*with* **Magarik, V. A.**), 21.9–746
Prilivy Vostochno-Kitaĭskogo i Zheltogo moreĭ [Straits of the eastern Chinese Sea and the Yellow Sea] (*with* **Ovchinnikov, V. V.**), 21.2–796
Bogdanov, M. A.
O frontal'noi zone v more Skotiia [Frontal zone in the Scotia Sea] (*with others*), 21.9–711
Boggess, William R.
Ecological perspective, 21.1–285
Bogomolov, O. S.
Reconstitution of the ground level pressure field according to the weather satellite data [Transl. from Russian], 21.11–6R
Bogorodskii, V. V.
Elektricheskie kharakteristiki dreifuiushchego Arkticheskogo l'da v diapazone chastot 100 gts–1 Mgts [Electrical properties of drifting Arctic ice in the frequency range of 100 Hz–1 MHz] (*with* **Khokhlov, G. P.**), 21.12–720
Fizicheskie metody issledovaniia lednikov [Physical method of investigation of glaciers], 21.3–748
Bohl, Dietrich
Fluchtlinientafel fur spezielle Schwebungserscheinungen [Nomogram for special oscillation phenomena], 21.12–801
Bohlander, R. A., *see* **Gebbie, H. A.**, 21.12–489
Bohme, D. K.
Aeronomic importance of ion-molecule clustering reactions, 21.8–165
See also **Fehsenfeld, F. C.**, 21.9–161
Bohse, J., *see* **Bettinger, R. T.**, 21.2–62
Boĭchuk, V. A.
Kharakteristika rastitel'nogo pokrova i pochv territoriĭ, podtoplennykh Gor'kovskim vodokhranilishchem [Characteristics of the plant cover and soils in areas flooded by the Gorki Reservoir] (*with others*), 21.2–608
Boicourt, William
Numerical model of the salinity distribution in upper Chesapeake Bay, 21.4–789
Boĭko, A. P.
Kharakteristiki zonal'noĭ tsirkuliatsii atmosfery v severnom i iuzhnom polushariiakh po dannym 1966–1967 gg [Characteristics of zonal circulation of th atmosphere in the Northern and Southern Hemispheres according to 1966–196 data] (*with* **Smirnov, I. P.** and **Kazakova, L. L.**), 21.3–429
Boĭko, L. I.
Osobennosti gidrogeologicheskikh uslov na territorii otdel'nykh karstovyk raĭonov Ukrainy [Peculiarities of hydrogeological conditions in individu karst regions of the Ukraine] (*wi others*), 21.11–698
Boischot, A.
Conditions of acceleration of solar electrons, and determination of the magnetic field in the high corona from th characteristics of a type-IV burst (*wi* **Clavelier, B.**), 21.2–421
Boisdron, Y.
On the stochastic nature of the acquisitio of electrical charge and radio activit by aerosol particles (*with* **Brock, J. R.**), 21.12–231
See also **Brock, J. R.**, 21.12–236
Boithias, L.
Calculation of attenuations in over-the-horizon propagation based on radiometeorological parameters, 21.9–191
Bojanowicz, Maria, *see* **Mikulski, Z.**, 21.5–645
Bojanowski, Ryszard
On the strontium content of the southern Baltic waters (*with* **Ostrowski, Stan sław**), 21.8–839
Bojkov, Rumen D.
Features of the vertical ozone distributio deduced from five years observation a Belsk, Poland, 21.5–320
Observations on the total ozone in Sofi during the solar eclipse of May 20, 196 21.4–11
Ozone distribution over Mediterranea Central and Southeast Europe during the International Quiet Sun Year, 1964–1965, 21.3–361
Some characteristics of the total ozon deduced from Dobson-spectrophotomete and filter-ozonometer data and their application to a determination of the effectiveness of the ozone station network 21.5–321
Bokhanov, V. E.
K voprosu poverki mekhanicheskikh vetroizmeritel'nykh priborov [The problem

of checking mechanical wind measurement instruments], 21.9–62

Bolander, Richard W.
Molecular theory for the nucleation of water vapor (*with others*), 21.12–493

Boldakov, E. V.
Determination of design maximum discharges of watercourses (*with* **Tchegodaev, N. N.**), 21.2–548
Increasing the accuracy of determination of maximum discharges and their exceedance probability, 21.9–591

Boldt, E. A.
2–20 keV X-ray sky background (*with others*), 21.8–258
Cosmic X-ray bremsstrahlung associated with suprathermal protons (*with* **Serlemitsos, P.**), 21.9–476

Boldyrev, V. G.
Ispol'zovanie statisticheskikh kharakteristik vertikal'noĭ struktury poleĭ temperatury i vlazhnosti pri opredelenii temperatury podstilaiushcheĭ poverkhnosti po radiatsionnym izmereniiam so sputnika [Use of statistical characteristics of the vertical profiles of temperature of underlying surface from satellite radiation data] (*with others*), 21.2–207
Korreliatsionnye funktsii i spektral'nye plotnosti intensivnosti ukhodiashchego izlucheniia v intervale spektra 0.6–0.8 mkm po izmereniiam so sputnika "Kosmos-45" [Correlation functions and spectral densities of the intensity of outgoing radiation in the spectral range of 0.6–0.8 from measurements aboard Cosmos-45 satellite] (*with others*), 21.2–119
See also **Koprova, L. I.**, 21.12–457

Boldyrev, V. M.
K predvychisleniiu maksimal'nykh raskhodov vody na rekakh Sharyn i Chilik [Calculation of maximum water flow in the Sharyn and Chilik rivers] (*with* **Popova, I. V.**), 21.4–522

Bolesta, Wojciech
Development of mountain streams in the Soła River Basin [Transl. from Polish], 21.2–578

Bolgurtsev, B. N.
Priblizhennyĭ metod rascheta poleĭ techeniĭ i plotnosti v baroklinnom okeane [Approximate method of computation of velocity and density field in the baroclinic ocean] (*with* **Kozlov, V. F.**) [and English transl.], 21.2–734
Rezul'taty rascheta techeniĭ v Tikhookeanskom sektore Antarktiki [The results of calculation of the currents in the Antarctic Pacific] (*with* **Kozlov, V. F.** and **Molchanova, L. A.**) [and English transl.], 21.4–714

Boliaev, M. D.
Raspredelenie osadkov na Ukraine pri razlichnykh tipakh sinopticheskikh protsessov [Rainfall distribution on the Ukraine under varying types of synoptic processes], 21.12–533
Sinopticheskie usloviia kholodnykh vtorzheniĭ na Ukrainu [Synoptic conditions for cold air penetration into the Ukraine], 21.9–208

Bolin, Bert
Introduktion till Meteorologin [Introduction to meteorology], 21.9–2
Some view-points on the international organization of the Global Atmospheric Research Program, 21.9–3
Summary review of meteorological satellites, 21.9–45

Bollay, E., Associates, Inc., Santa Barbara, Calif.
Fog droplet growth and precipitation-rate measurements with an ultraviolet wavelength transmissometer, 21.11–375

Boller, P., *see* **Dütsch, H. U.**, 21.7–168

Bollermann, Bruce
Design, development and flight test of the Viper Dart Robin Meteorological Rocket System (*with* **Walker, R. L.**), 21.3–141
Study of 30 km to 200 km meteorological rocket sounding systems, Vol. 1, Literature and data review, 21.11–69

Bolotinskaia, M. Sh.
K voprosu prognoza znaka anomalii povtoriaemosti form tsirkuliatsii [Prediction of the sign of the anomaly of circulation pattern frequency], 21.9–98
O sviazi povtoriaemosti meridional'nykh form atmosfernoĭ tsirkuliatsii s korpuskuliarnym izlucheniem Solntsa [Relationship between the frequency of meridional type of atmospheric circulation and solar corpuscular emission] (*with* **Ol', A. I.**), 21.6–291

Bolovina, V. N., *see* **Bespalov, A. I.**, 21.1–284; 21.9–122

Bol'shakova, L. G.
Ozonesonde for measuring the vertical distribution of atmospheric ozone, 21.10–9R

Rasseianie ul'trafioletovoĭ radiatsii na svetropriemnikakh ozonozondov [The scattering of ultraviolet radiation on the ozonesonde sensing elements] (*with* **Britaev, A. S.** and **Rat'kov, V. M.**), 21.6–114

Bol'shakova, O. V.

Sviaz' napravleniia mezhplanetnogo magnitnogo polia s rezhimom ustoichivykh kolebaniĭ [The direction of the interplanetary magnetic field, as related to steady oscillations] (*with* **Troitskaia, V. A.**), 21.7–742

Bol'shoĭ, A. A., *see* **Cherkas, V. I.**, 21.7–177

Bolt, G. H.

Coupling phenomena as a possible cause of "non-Darcian" behaviour of water in soil (*with* **Groenevelt, P. H.**), 21.1–649

Bolton, Bill, *see* **Penn, J. B.**, 21.8–381

Bonatti, Enrico, *see* **Prospero, J. M.**, 21.6–181

Bond, F. R.

Auroral morphological similarities at two magnetically conjugate stations, Buckles Bay and Kotzebue, 21.10–501

Bond, T. E., *see* **Morrison, S. R.**, 21.7–521

Bondar, V. A., *see* **Kudyshkin, V. A.**, 21.9–344

Bondarenko, A. L.

Izmerenie kolebaniĭ urovnia moria priborami s ispol'zovaniem v kachestve fil'tra mareografnogo kolodtsa s soedinitel'noĭ truboĭ [Measurements of variations of the sea level with instruments using a marigraph well with a connecting tube as a filter], 21.4–647

Bonhomme, R.

Mesure de la composition spectrale du rayonnement diffus (*with* **Chartier, Ph.** and **Gans, F.**) [Measurement of spectral diffuse radiation composition], 21.3–62

Bónis, Katalin

On the kinetics of condensation of atmospheric water vapour on soluble nuclei, 21.3–645

Bonn. Univ. Met. Inst., *see* **Doberitz, R.**, 21.5–616

Bonner, G. P., *see* **Kovar, N. S.**, 21.10–550

Bonner, William D.

Mass and kinetic energy budgets over the south-central United States in summer (*with* **Tsui, Ted**), 21.10–215

Satellite studies of clouds and cloud ban near the low-level jet (*with* **Winnin hoff, F.**), 21.3–148

Bonnevier, Björn

Three-dimensional model current syste for polar magnetic substorms, 21.8–61

Bonte, J., *see* **De Cormis, L.**, 21.7–140

Booth, Arthur L.

Mesoscale archive and computer produc of digitized video data from ESSA sate lites (*with* **Taylor, V. R.**), 21.5–52

Booth, A. L., *see* **Leese, J. A.**, 21.5–97

Booth, Gillian (comp.)

Bibliography of IQSY publications, 21.1 63R

Booz-Allen Applied Research, Inc.

Advanced development of a C/B foreca system, Vol. 2, 21.3–221

Borden, Thomas R., Jr.

Extreme values of ozone observed in t AFCRL ozonesonde network, 21.12–2

Bordovskaia, L. I.

Gradobitiia v Zapadnoĭ Sibiri (Ha storms in Western Siberia), 21.11–415

Bores, P. Suarez

Introducción a la estructura del olea [Introduction to wave structure], 21. 737

Borghi, Sergio, *see* **Minafra, N.**

Borgwardt, Robert H.

Kinetics of the reaction of SO_2 with ca cined limestone, 21.12–227

Borisenko, M. M.

Adiabaticheskie profili vetra v nizhnik sloiakh atmosfery [Adiabatic wind pro files in the lower layers of the atmo sphere] (*with* **Zavarina, M. V.**), 21.4 221

O vrashchenii vetra s vysotoĭ v nizhne sloe atmosfery [Wind rotation with alt tude in lower layers of the atmosphere (*with* **Klingo, V. V.**), 21.4–223

Vertikal'nye profili skorosti vetra po nab liudeniiam na meteorologicheskoĭ mach v Obninske [Vertical profiles of wi speed according to the observation taken at the Obninsk meteorologica tower] (*with* **Zavarina, M. V.** an **Tsverava, V. G.**), 21.4–222

See also **Zavarina, M. V.**, 21.5–515

Borisenkov, E. P.

Na simpozuime po primeneniiu meteor ologicheskikh sputnikov dlia issledo vaniia poliarnykh raionov, 3–4 iiuni 1969 g., Leningrad [Symposium on th use of meteorological satellites for in vestigation of the polar regions, June 3–4, 1969] (*with* **Gavrilova, L. A.**), 21.9–46

Borisov, A. A.
Paleoklimaticheskoe raionirovanie territorii SSSR [Paleoclimatic regional classification of the U.S.S.R.], 21.12–563

Borisov, E. V.
Vliianie razvitogo vetrovogo volneniia na vertikal'nyĭ profil' temperatury v glubokom more [The effect of the development of a wind wave on the vertical temperature profile in a deep sea], 21.11–768

Borisov, P. M.
Depressiia mirovogo klimata v Golotsene i vozmozhnyĭ put' ego rekonversii. [Depression of the world climate in Holocene and a possible way of its reconversion], 21.1–662

Borisova, E. I.
Osobennosti atmosfernykh protsessov i pogody v fevrale 1966 g. i vozmozhnost' dolgosrochnogo ikh prognozirovaniia [Peculiarities of atmospheric processes and weather in February 1966 and possibility of their long-range forecasting], 21.2–40

Borisova, L. G.
Analiz prognoza i fakticheskogo razvitiia atmosfernykh protsessov i pogody v noiabre 1966 g. [Analysis of the forecasting and actual development of atmospheric processes and weather in November 1966], 21.2–39
Temperaturnaia anomaliia vesennikh mesiatsev pered skhodnymi noiabriami [Temperature anomaly of the spring months before similar Novembers], 21.3–560

Borkowski, Janusz
Spectra of anisotropic turbulence in the atmosphere, 21.10–225
Spectra of turbulent energy in the surface layer of the atmosphere, 21.5–383

Bornemisza, E., *see* **Gavande, S. A.**, 21.2–399

Boros, J.
Angaben zur Untersuchung von lokalen Talklimas [Observational data and their use in the investigation of a local valley climate], 21.7–675

Borovikov, A. M.
Fizika oblakov [Cloud physics], 21.6–580

Borovikov, A. M.
K voprosu o tochnosti radiolokatsionnogo metoda izmereniia osadkov [The accuracy of radar measurements of rainfall] (*with* **Fedorova, A. A.**), 21.6–593

Borovikova, L. N.
Mathematical modeling of snow cover formation and computation of the supply of water to the surface of a mountain basin [Transl. from Russian], 21.9–14R
Obshchie printsipy lineinogo modelirovaniia transformatsii rechnogo stoka [General principles of the linear simulation of river discharge transformation] (*with others*), 21.12–708

Borshchevskiĭ, E. N., *see* **Akin'shin, V. V.**, 21.2–533

Borsody, Janos
Analytic calculation of launch vehicle response to winds and calculation of optimal biased pitch programs, 21.11–70

Bortels, H.
Meteorologische Einflüsse auf Atmungs- und Gärungsintensität von Saccharomyces-Hefe [Meteorological influences on the respiration and fermentation intensity of sacharomyces yeast] (*with* **Massfeller, D.** and **Wedler, E.**), 21.7–461

Bortkovskiĭ, R. S.
Investigations of the atmosphere over the sea (*with* **Strokina, L. A.** and **Utina, Z. M.**), 21.9–15R
O metodakh opredeleniia turbulentnykh potokov kolichestva dvizheniia i tepla nad morem [Methods for determining the turbulent momentum and heat flows over the ocean] (*with* **Biutner, E. K.**), 21.7–839
Raschet koeffitsienta teploobmena nad morem [Calculation of the heat-exchange coefficient above the sea] (*with* **Buitner, E. K.**) [and English transl.], 21.3–490

Bosch, F. M., *see* **Van Cauwenberghe, A. R.**, 21.7–220

Bosse, Michel, *see* **Expeditions Polaires Francaises, 1948**, 21.10–109R

Bossolasco, Mario
Il contrasto mare–terra nella genesi dei temporali [Sea–Earth contrast in the genesis of storms] (*with* **Dagnino, Ignazio** and **Flocchini, Giuseppe**), 21.7–306
Primi risultati sulla registrazione rapida delle scariche elettro-atmosferiche [First

results of rapid recording of atmospheric electric discarges] (*with* **Dagnino, Ignazio** and **Flocchini, Giuseppe**), 21.7–720
Proprietà fisiche del manto nevoso a Sauze d'Oulx (1865 m) [Physical properties of snow mantel at Sauze d'Oulx] (*with* **Cicconi, G.** and **Flocchini, G.**), 21.2–268
Some properties of whistlers at Roburent, North Italy (*with others*), 21.2–378
Whistlers at Roburent and lightning in the conjugate area (*with* **Caneva, Azzio** and **Elena, Antonio**), 21.7–721

Bostock, H. S.
Kluane Lake: its drainage and allied problems, 21.10–766

Boston, Ray C.
Hail detection by Doppler radar (*with* **Rogers, R. R.**), 21.5–56
Radar attenuation and reflectivity due to size-distributed hydrometeors, 21.6–40

Boström, Rolf
Auroral current systems, 21.8–166
See also **Bonnevier, Björn, 21.8–611**

Bostrom, C. O., *see* **Williams, D. J., 21.2–156**

Bosua, T. A.
Improved designs for three meteorological instruments, 21.3–180

Boswell, E. H.
Quaternary aquifers in the Mississippi embayment (*with* **Cushing, E. M.** and **Hosman, R. L.**), 21.5–754

Boteva, K.
Vŭrkhu rezhim a na Iskretskiia karstov izvor. [The regime of Izkretz karst spring] (*with* **Raĭkova, Bl.**), 21.1–793

Botnikov, V. N.
Okeanograficheskie issledovaniia v Iuzhnom okeane [Oceanographic observations in the Southern Ocean] (*with* **Chikovskii, S. S.**), 21.12–740
Raspredelenie morskikh l'dov i aisbergov v Antarkticheskikh vodakh v letnii period 1965/66 g [Distribution of sea ice and icebergs in the Antarctic waters during the summer of 1965/66], 21.12–729

Botswana [Republic]. Water Development Committee
[General water conditions of the Republic of Botswana], 21.11–95R

Bottari, D.
Rassegna storica della cooperazione internazionale nella meteorologia, 21.3–7
Valore economico dei servizi meteorologic 21.3–8

Bottino, A.
Possibility of studying "skyshine" phenon ena of gamma radiation on laborator scales (*with* **Cardinale, A.** and **Dell Anna, G.**), 21.6–398

Boudreau, Robert D.
On the use of ultraviolet lidar for observ ing atmospheric constituents by Rama scattering, 21.12–33

Bourbon, P.
Contribution à l'étude de la pollution a mosphérique [Contribution to the stud of the atmospheric pollution] (*wit others*), 21.3–331

Bourdeau, P., *see* **Myttenaere, C., 21.3–70**

Bourkland, Martin T.
Oceanographic cruise summary, Ross Se Antarctica, February and March 196 21.4–639

Bouscaren, Remy
Sur les transferts de masse et d'énergi entre la stratosphère et la troposphèr [Transfers of mass and energy betwee the stratosphere and the troposphere] (*with others*), 21.8–153

Bouwer, Herman
Infiltration of water into nonuniform soil 21.8–482

Bove, John L.
Airborne lead and carbon monoxide a 45th street, New York City (*with* **Sie-benberg, S.**), 21.12–232

Boville, Susan
Objective analysis of atmospheric fields using Tchebycheff minimization criteria, 21.12–127

Bowen, Anthony J.
Generation of longshore currents on a plane beach, 21.4–784
Rip currents, Pt. 1, Theoretical investigations, 21.12–769
Rip currents, Pt. 2, Laboratory and field observations (*with* **Inman, D. L.**), 21.12–770

Bowers, B. C.
Chromospheric flare enhancements in the extreme ultraviolet and their relationship with solar abundances, 21.11–660

Bowers, C. Edward
Review and analysis of rainfall and runoff data for selected watersheds in Minnesota (*with* **Pabst, Arthur F.**), 21.1–601

Bowhill, S. A.
- Interactions between the stratosphere and the ionosphere, 21.6–221
- Ion chemistry of the D- and E-regions: a survey for Working Group 11 of the Inter-Union Commission on Solar–Terrestrial Physics, 21.1–669
- *See also* **Shere, K. D.**, 21.7–242

Bowles, Kenneth L., *see* **Morgan, M.**, 21.8–286

Bowley, Clinton J.
- Sunglint patterns (*with* **Greaves, J. R.** and **Speigel, S. L.**), 21.4–403
- *See also* **Barnes, J. C.**, 21.3–34; **Merritt, E. S.**, 21.5–419

Bowman, Howard S.
- "Subsonic" waves and severe weather phenomena, 21.4–386

Bowman, K. O., *see* **Shenton, L. R.**, 21.11–21

Bowman, M. R., *see* **Thomas, L.**, 21.6–382

Bowman, William Toft
- Long-wave propagation in a triangular channel, 21.11–779

Bowne, N. E.
- Simulation model for air pollution over Connecticut, 21.5–236

Boyd, D. W.
- Atmospheric icing of structures (*with* **Williams, G. P.**), 21.6–573

Boyd, G. M.
- Doppler observations of associated ionospheric and magnetic fluctuations (*with* **Duffus, H. J.**), 21.11–171

Boyd, R. L. F.
- Future requirements for cosmic X-ray astronomy, 21.10–589
- Solar X-rays and the ionosphere, 21.6–399

Boye, H.
- Survey of wind-approximations with a barotropic model (*with* **Ehlers, R. W.** and **Fischer, G.**), 21.6–132

Boyer, Dennis L.
- Annotated climatological bibliography of India (*with* **Smith, A. L., Jr.**), 21.4–321
- Annotated climatological bibliography of the Benelux countries (1960–1969) (*with* **Smith, Alvin L., Jr.**), 21.9–128R
- *See also* **Creasi, Vincent J.**, 21.10–64R, –65R; **Smith, A. L., Jr.**, 21.5–680; 21.9–139R

Bozhkov, R. D.
- Vychislenie vertikal'nogo raspredeleniia ozona v atmosfere po dannym o ego obshchem soderzhanii [Calculation of vertical ozone distribution in the atmosphere according to data of its total content], 21.2–63

Braarud, Trygve, *see* **Progress in Oceanography, Oxford, England**, 21.10–789

Brace, L. H.
- Comparison of cylindrical electrostatic probe measurements on Alouette-2 and Explorer-31 satellites (*with* **Findlay, J. A.**), 21.11–172
- *See also* **Mahajan, K. K.**, 21.4–172; **Miller, N. J.**, 21.7–195; **Reddy, B. M.**, 21.11–206

Bradbury, Dorothy L.
- Development of a dry line as shown by ATS cloud photography and verified by radar and conventional aerological data, 21.12–401
- *See also* **Fujita, T. T.**, 21.5–422; 21.9–241R; 21.11–274

Bradbury, J. N., *see* **Akasofu, S. I.**, 21.11–510

Braddock, R. D.
- On meteorological navigation, 21.6–1
- On tsunami propagation, 21.2–789

Bradford, J. N.
- Sensitive system for measuring atmospheric depolarization of light (*with* **Tucker, J. W.**), 21.7–72

Bradley, E. F.
- Micrometeorological study of velocity profiles and surface drag in the region modified by a change in surface roughness, 21.1–519
- Shearing stress meter for micrometeorological studies, 21.1–184
- Small, sensitive anemometer system for agricultural meteorology, 21.3–192

Bradshaw, Nick Louis
- Objective analysis of synoptic scale satellite radiation patterns, 21.10–59

Bradshaw, Peter
- [Comments on] **Ernest W. Peterson**: On the relation between the shear stress and the velocity profile after a change in surface roughness and [Reply by] **Peterson**, 21.7–238

Brady, W. R.
- Method of deriving representative temperature profiles, including the tropopause, from the three-level forecast model, 21.10–26

Bragin, Iu. A.
- Priamye issledovaniia znaka prostranstvennogo zariada atmosfery nizhe 50 km [Direct study of the sign of the atmo-

spheric space charge below 50 km] (*with* **Shamakhov, B. F.**), 21.11–505

Brahde, R., *see* **Jensen, E.**, 21.6–723

Brahmananda Rao, V.
- On the large scale motion in the tropics with latent heat due to condensation, 21.10–237

Brajović, V., *see* **Kvajić, G.**, 21.6–809

Bramao, D. L., *see* **Smyth, A. J.**, 21.8–677

Bramley, E. N.
- Electric field effects in the middle-latitude F-region, 21.8–167

Bramson, M. A., *see* **Bezverkhnii, Sh. A.**, 21.12–413

Brancazio, Peter J.
- Infrared astronomy (*with* **Cameron, A. G. W.**), 21.1–24

Branch, David
- Isotopes of magnesium in the Sun, 21.6–720
- On the absence of the (O, O) C_2 Swan band from sunspot spectra, 21.12–650

Brand, Samson
- Interaction of binary tropical cyclones of the western North Pacific Ocean, 21.11–267

Brandes, Edward A., *see* **Spar, Jerome**, 21.8–102

Brandli, Henry William
- Atmospheric pollution by ozone: its effects and variability, 21.10–136

Brandt, John C.
- Interplanetary gas, Pt. 16, A calculation of the angular momentum of the solar wind (*with* **Wolff, Charles** and **Cassinelli, Joseph P.**), 21.8–259
- Introduction to the solar wind, 21.8–260

Brandt, P. N.
- Frequency spectra of solar image motion, 21.3–729

Branica, M., *see* **Baric, A.**, 21.9–706

Branscomb, L. M., *see* **Woo, S. B.**, 21.1–283

Branson, F. A., *see* **Blake, C. J.**, 21.10–422

Brar, Sarmukh S.
- Thermal neutron activation analysis of particulate matter in surface air of the Chicago metropolitan area by one minute irradiations, 21.12–233

Bratsev, L. A.
- Kama–Pechora–Vychegda water management complex and its possible effects on separate sectors of the economy of the Komi A.S.S.R. (*with* **Vavilov, P. P.** and **Mamaev, G. T.**) [Transl. from Russian], 21.5–752

Bratteng, O. M.
- Feature of the polar F-region (*with* **Fr** **hagen, J.**), 21.1–330

Braude, S. I.
- Spectra of discrete radio sources at deca metric wavelengths, Pt. 1 (*with others* 21.4–464

Braun, O.
- Overlay scale to determine Sly Inde directly from tephigram, 21.1–538

Braunberg, Rudolf
- Das achte Weltmeer [The eighth ocean 21.4–51

Bray, A. D.
- Emission of radio pulses from cosmic ra extensive air showers, 21.10–531

Bray, D. I., *see* **Lee, J.**, 21.8–456

Bray, R. J.
- High-resolution photography of the sola chromosphere, Pt. 6, 21.5–718

Brazell, J. H.
- Meteorology and the clean air act, 21.12 234

Brazil. Diretoria de Hidrografia e Navi gação
- XXVI Comissão Oceanográfica "Oper ação Norte/Nordeste II" "Almirant Saldanha 2/4 a 1/6/68 ["Operatio North/Northeast II" [of] 36th Ocean ographic Commission [by] Ocean ographic Research Ship "Almirante Saldanha" April 2–June 1, 1968], 21.1–720

Brazil. Escritório de Meteorologia
- Atlas climatológico do Brasil [Climatological atlas of Brazil], 21.6–643
- Normais Climatológicas, Vol. 1–5 [Normal climatologies], 21.7–665

Brearley, M. N.
- Hazard of atmospheric wind shears durin parachute recovery of instruments, 21.1–164
- Influence of stratospheric winds on a suspended instrument package, 21.3–62

Brechtel, Horst M.
- Gravimetrische Schneemessungen mit der Schneesonde "Vogelsberg" [Gravimetric snow measurement with the "Vogelsberg" snow probe], 21.6–801

Bredehoeft, John D.
- Temporal allocation of groundwater: a simulation approach (*with* **Young, R. A.**), 21.12–682
- *See also* **Pinder, G. F.**, 21.4–563

eden, K. H.
aboratory measurements of atmospheric absorption in the submillimeter region (*with* **Sheppard, A. P.**), 21.10–207
ene, R. G., Jr.
terpretation of OV1–5 radiometric observations (*with* **Swant, J. S.** and **Marcotte, L. P.**), 21.1–419
ig, E. L., *see* **Hudson, R. D.,** 21.3–319
iland, John G.
ariations in the vertical distribution of atmospheric ozone during the passage of a short wave in the Westerlies, 21.5–322
khovskikh, L. M.
eneratsiia zvukha poverkhnostnymi volnami pri uchete donnykh otrazheniĭ i zavisimosti skorosti zvukha v vode ot glubiny [Generation of sound by the surface waves in the presence of bottom reflections and dependence of sound velocity in water upon depth] (*with* **Goncharov, V. V.**) [and English transl.], 21.4–662
ndakov, V. F. et al.
rovni radioaktivnogo zagriazneniia prizemnogo sloia atmosfery i poverkhnosti Zemli produktami iadernykh vzryvov v 1963–1965 gg [Levels of radioactive contamination in the ground layer of the atmosphere and of the Earth's surface by products of nuclear explosions between 1963 and 1965], 21.1–340
n, H.
e atopische konstitutionelle Neurodermitis und ihre Beeinflussung durch das alpine Klima von Davos [Atopic, constitutional neurodermitis and its modification by the Alpine climate of Davos] (*with* **Gehrken, H.**), 21.8–535
nan, Eileen, *see* **Leone, I. A.,** 21.5–226
ton, June G.
udy of the diurnal variations of the 5577 A (01) airglow emission at selected IGY stations (*with* **Silverman, S. M.**), 21.8–244
ler, Eshel
aporation from soil as affected by wetting methods, salt and structure, 21.7–526
e also **Hanks, R. J.,** 21.6–752
herton, F. P.
omentum transport by internal gravity waves, 21.6–263
omentum transport by gravity waves, 21.1–388
ectral gap (*with others*), 21.10–219
Waves and turbulence in stably stratified fluids, 21.10–221
See also **Benwell, G. R. R.,** 21.1–216
Bretschneider, Charles L.
Look Laboratory of Oceanographic Engineering, 21.4–645
Breus, T. K.
Vzaimosviaz elektronnykh i ionnykh temperatur i elektronnoĭ kontsentratsii v ionofere [Interrelation between electron and ion temperature], 21.2–66
See also **Gringauz, K. I.,** 21.12–300
Brewer, Gerald W., *see* **Hughes, J. K.,** 21.2–397
Brezonik, Patrick L.
Nitrogen fixation in some anoxic lacustrine environments (*with* **Harper, C. L.**), 21.10–763
Brezowsky, Helmuth, *see* **Hess, P.,** 21.4–96
Brian, Michael
Automated weather buoy incorporating an upper air sounding rocket data subsystem, 21.6–96
Briazgin, N. N.
O spektral'nom al'bedo snezhno-ledianogo pokrova [Spectral albedo of snow–ice covers] (*with* **Koptev, A. P.**), 21.6–361
Bricard, Jean
Formation and evolution of aerosol generated through the action of ultraviolet and solar radiation (*with others*), 21.12–235
Formation and properties of radiolytic and photolytic condensation nuclei in atmospheric dust-free air (*with* **Billard, F.** and **Madelaine, G.**), 21.7–551
Study of the mobility of small ions in air by the flight time method (*with* **Cabane, M.** and **Madelaine, G.**), 21.9–430
Bridgman, Howard A. Jr.
Radiation balance of the Southern Hemisphere, 21.7–318
Brier, G. W.
Tropical cloudiness and rainfall related to pressure and tidal variations (*with* **Simpson, J.**), 21.2–338
Briggs, B. H.
Buckland Park aerial array, 21.11–173
Observations of ionospheric movements by the use of a large aerial array, 21.11–174
Briggs, G. A.
Mathematical analysis of chimney plume rise and dispersion: optimum formulas for buoyant plume rise, 21.10–226
Plume rise, 21.6–483
Prediction of plume rise heights, 21.8–218

Briggs, J.
- Estimates of the duration of short-period rainfall rates based on clock-hour values (*with* **Harker, J. A.**), 21.6–607
- Visibility variations at London/Heathrow Airport, 21.3–687

Briggs, R. M.
- Pronounced diurnal variation in cosmic ray intensity as seen by inclined meson telescopes (*with* **Hicks, R. B.** and **Standil, S.**), 21.3–534
- Removal of meteorological effects from meson-telescope data (*with* **Hicks, R. B.** and **Standil, S.**), 21.7–398

Bringfelt, B.
- [Discussion of] E. C. Halliday: Measurements of the rise of hot plumes and [Reply by] Halliday, 21.5–237
- Study of buoyant chimney plumes in neutral and stable atmospheres, 21.7–480

Brinkmann, R. T.
- Dissociation of water vapor and evolution of oxygen in the terrestrial atmosphere, 21.7–130

Brinton, H. C.
- Diurnal and seasonal variation of atmospheric ion composition: correlation with solar zenith angle (*with others*), 21.11–175

Brissett, Donald T.
- Operation raincheck, 21.1–123

Bristor, C. L., *see* **Doolittle, R. C.**, 21.11–79

Britaev, A. S.
- O srednikh i ekstremal'nykh kontsentratsiiakh ozona v atmosfere [Mean and extreme values of ozone concentration in the atmosphere] (*with others*), 21.3–362
- O statisticheskoĭ ustoĭchivosti riadov nabiiudeniĭ ozona [Statistical stability of a series of ozone observations] (*with* **Zhavoronkov, E. G.**), 21.4–40
- *See also* **Bol'shakova, L. G.**, 21.6–114

British Antarctic Meteorological Service
- Annual meteorological tables, 1962, 21.8–34

Briukhovetskiĭ, A. S., *see* **Bliokh, P. V.**, 21.5–338

Briunelli, B. E.
- Sobstvennye periody toroidal'nykh kolebanii magnitosfery [Proper periods of toroidal oscillations of the magnetosphere] (*with* **Namzaladze, A. A.**), 21.8–209

Broadfoot, A. L., *see* **Wallace, L.**, 21.3–507

Broche, P.
- Effect Doppler en ondes décamétric engendré par une onde acoustique propageant dans l'ionosphère [Dop effect in decemetric waves produced an accoustic wave propagating in ionosphere], 21.6–222

Brochu, J., *see* **Williams, G. D. V.**, 2 548

Brochu, Michel
- Causes associées, d'ordre astronom (activité solaire), géophysique (magnétisme, marées et volcanisme) météorologique (précipitations neige diluviennes) des grandes glaciations Globe [Associated causes, astronono order (solar activity), geographic (g magnetism, seas, and volcanism) meteorologic (heavy snow precipitati of the large global glaciations], 21.2–

Brock, Eugene Byron
- Daily divergence of water vapor transp 21.5–545

Brock, J. R.
- Stochastic nature of the acquisition electrical charge and radioactivity aerosol paticles (*with* **Boisdron,** 21.12–236
- *See also* **Boisdron, Y.**, 21.12–231

Brockamp, B.
- Ein weiterentwickeltes Verdunstungsm gerat fur Kleingewasser (als Beit zur hydrologischen Dekadeder UN CO) [Improved evaporimeter for bodies of water : contribution to hydrological decade of UNESCO] (**Werner, J.**), 21.12–97

Brocks, Karl
- Eine neigungsstabilisierte Boje zur sung der turbulenten Vertikalflüsse dem Meer (Servo-stabilized buoy the determination of the eddy transp above the sea (*with* **Hasse, Lutz**), 2 481
- Start zur "Atlantischen Expedition 1 (GARP)" [Beginning of the "Atla Expedition 1969 (GARP)"], 21.3–1
- *See also* **Hasse, L.**, 21.3–792

Brodeur, Maurice
- On the annual air temperature (**Gherzi, Ernesto**), 21.10–310

Brodrick, Harold J., Jr.
- Some aspects of the vorticity struct associated with extratropical cloud s tems, 21.1–400

ynoptic/dynamic diagnosis of a developing low-level cyclone and its satellite-viewed cloud patterns (*with* **McClain, E. P.**), 21.3–459

oek, H. W.

etermination of the aliasing band corresponding to each spectrum peak in ocean-bottom temperature spectra, 21.12–774

luctuations in bottom temperature at 2000-meter depth off the Blake plateau, 21.9–732

oenkow, William W.

olorimetric determination of dissolved oxygen at low concentrations (*with* **Cline, J. D.**), 21.2–722

oglio, Luigi

quatorial atmospheric density obtained from San Marco II Satellite between 200 and 350 km, 21.7–126

oida, Saul

eostrophy and direct measurements in the Straits of Florida, 21.4–715

ee also **Smith, J. A.**, 21.2–756

onshten, V. A.

proniknovenii antiveshchestva v Solnechnuiu sistemu i atmosferu Zemli [The penetration of antimatter into the solar system and atmosphere of Earth] (*with* **Staniukovich, K. P.**), 21.4–423

bservations of the Leonid meteor shower in November 1966 in the U.S.S.R., 21.11–616

ook, R. R.

n the variation of maximum wind gusts with height (*with* **Spillane, K. T.**), 21.6–477

ee also **Australia. Bureau of Met.**, 21.3–123

osin, H. J., *see* **Nehring, D.**, 21.7–832

ounshteĭn, A. M.

liianie spektral'nykh kharakteristik priemnykh poverkhnosteĭ priborov na tochnost' izmereniia radiatsionnykh potokov [Influence of spectral characteristics of receiving surfaces of instruments on the accuracy of measuring radiant fluxes], (*with* **Lebedeva, K. D.** and **Sivkov, S. I.**), 21.1–167

ovikov, I. S.

unktsii respredeleniia elementov voln na melkovod'e in Moscow [Functions of the distribution of wave components in shallow water], 21.10–10R

own, C. M., *see* **Kerr, J. R.**, 21.6–673

Brown, D. M.

Daily temperature and precipitation frequencies, in Ontario, 21.5–84

Brown, Harry E.

Combined control-metering section for gaging large streams, 21.4–510

Status of pilot watershed studies in Arizona, 21.12–693

Brown, Ira C.

Canadian federal groundwater network, 21.9–635

Brown, James H.

Energy exchange at a sea ice boundary, 21.6–264

Brown, John Atkins, Jr.

Comparative measures of potential to kinetic energy conversion, 21.11–253

Brown, Keith J., *see* **Shaffer, Russel W.**, 21.12–198

Brown, Kirk W.

Computer program for plotting time-dependent meteorological data, 21.9–30

Concentration of CO_2 in the air above a sugar beet field (*with* **Rosenberg, N. J.**), 21.5–220

Mechanisms of windbreak influence on microclimate, evapotranspiration, and photosynthesis of the sheltered crop, 21.4–231

Brown, L., *see* **Goodman, E. A.**, 21.4–392

Brown, M. C.

Water budget studies in Karst aquifers (*with* **Wigley, T. L.** and **Ford, D. C.**), 21.7–795

Brown, M. S.

Calculation of atmospheric refraction angles from measured air temperature gradients, 21.10–205

Brown, P. S., Jr.

Equivalent-obstacle model for the computation of radiative flux in obstructed layers (*with* **Pandolfo, J. P.**), 21.6–379

Brown, Paul M.

Modification of the Bausch and Lomb aerosol dust counting system to automatically measure aerosol size distributions, 21.7–59

Brown, Philip S., *see* **Arnason, G.**, 21.5–529

Brown, R. A.

Secondary flow model for the planetary boundary layer, 21.11–167

See also **Peace, R. L., Jr.**, 21.3–629

Brown, R. J. E.

Factors influencing discontinuous permafrost in Canada, 21.5–489

Permafrost investigations in northern Ontario and northeastern Manitoba, 21.6–466

Brown, R. L.
Manual for ARN-3 type atmospheric noise measuring equipment, 21.7–57

Brown, R. M.
Tritium and other tracers in the hydrologic cycle (*with* **Merritt, W. F.**), 21.8–341

Brown, R. R.
On green line suppression in type-B aurorae, 21.11–530
Solar cosmic ray effects in the lower ionosphere of Venus, 21.10–291

Brown, Robert M.
Second conference on lidar probing of the atmosphere, 21.7–26

Brown, S. Clark
Cloud-cover simulation procedure, 21.7–575

Brown, W. J., *see* **Blevin, W. R.**, 21.10–74

Brown, Wilfred E., III, *see* **Haroules, G. G.**, 21.4–142

Browne, Ivan D., *see* **Whitehead, Victor S.**, 21.7–582

Browne, J. C., *see* **Dalgarno, A.**, 21.5–703

Browning, J. E., *see* **Stewart, E. H.**, 21.8–353

Browning, K. A.
Air motion and precipitation growth in a wave depression (*with* **Harrold, T. W.**), 21.1–397
Observations of clear air turbulence by high power radar (*with* **Watkins, C. D.**), 21.12–471

Brownlee, Donald E., *see* **Hodge, Paul W.**, 21.7–743

Bruce, J. G.
Further estimate of maximum transport of the Somali current, 21.1–740

Bruce, R. R.
Soil water supply and depletion pattern differentiate among *Zea mays* L. single- and double-cross hybrids (*with others*), 21.10–423

Bruch, Alvan
Diurnal wind variations in the stratosphere (*with others*), 21.3–609

Bruevich, S. V.
Solevoĭ obmen mezhdu okeanom i atmosfernoĭ [Salt exchange between the ocean and the atmosphere] (*with* **Korzh, V. D.**) [and English transl.], 21.4–748

Brugmann, Lutz, *see* **Berge, H.**, 21.12–748

Brun, C., *see* **Pontikis, C.**, 21.6–29, 32

Brun, M.
Contrôle de la pollution de l'air [Air p
lution control], 21.5–238

Brunelle, P. E.
Calibration d'une sonde à film chaud da
l'eau en rotation [Calibration of h
film probes in rotating water] (*w*
Gautier, M. and **Pichon, J.**), 21.10–7

Bruner, E. C., Jr.
Deuterium in the Earth's exosphere (*w*
Wilson, T. E.), 21.10–202

Brunet-Moret, Y.
Étude théorique et méthodologique
l'abattement des pluies journaliè
[Theoretical and methodological stu
of the distribution of daily rains] (*w*
Roche, M.), 21.7–595

Brunk, William E.
Lunar orbiter program, 21.10–605

Bruns, Franz Josef, *see* **Hellmann, H**
21.12–695

Brunstein, Karl, *see* **Lal, S.**, 21.10–594

Brunt, A. T.
Low latitude cyclones, 21.6–331

Brusin, V. A.
Global'naia ustoĭchivost' vynuzhdenno
periodicheskogo resheniia uravneniia op
syvaiushchego dinamiku temperaturno
polia Luny [Global stability of a forc
periodic solution of an equation descri
ing the dynamics of the Moon tempera
ture field] [and English transl.], 21.
698

Brutsaert, Wilfried
Evaporation from an extremely narro
wet strip at ground level (*with* **Yeh,**
T.), 21.5–555
See also **Yu, Shaw L.**, 21.4–262; 21.7–5

Bruzek, A.
Bright points (moustaches) and arch fil
ments in young active regions, 21.1–68
Motions in arch filament systems, 21.12
638
On small-scale mass motion associated wit
flares, 21.2–478

Bryan, Kirk
Climate and the ocean circulation, Pt.
21.6–833
See also **Manabe, S.**, 21.2–333

Bryan, Rorke
Temperature studies in a bore hole a
southern Adelaide Island, 21.2–620

Bryant, D. A., *see* **Courtier, G. M.**, 21.10
504

Bryant, J. P.
Vegetation and frost activity in an alpine fell field on the summit of Plateau Mountain, Alberta (*with* **Scheinberg, E.**), 21.11–757

Bryant, Pamela M.
Data for assessments concerning contolled and accidental releases of ^{131}I and ^{137}Cs to atmosphere, 21.3–399

Brylev, G. B.
Issledovanie zakonomernosteĭ statisticheskogo raspredeleniia radiolokatsionnykh kharakteristik v raznykh oblachnykh sistemakh s zhidkimi osadkami [Investigation of statistical distibution laws for radiolocation characteristics in different cloud systems with liquid precipitation], 21.12–537
Meteorologicheskaia priroda i kharakteristiki anomal'nogo radioekho [Meteorological nature and characteristics of an anomalous radio echo] (*with* **Fedorov, A. A.**), 21.1–108

Bryson, Reid A.
Reconnaissance study of certain aspects of the heat cycle of lakes (*with* **Ragotzkie, R. A.**), 21.5–771
Tentative climatic patterns for some late glacial and post-glacial episodes in central North America (*with* **Wendland, Wayne M.**), 21.11–89

Bucca, Paul J., *see* **Fenner, Don F.**, 21.7–841

Buchan, William Edward
Some meteorological and human influences on the degree of air pollution in Seattle, 21.1–286

Buchanan, Thomas J.
Comparison of flood-wave and water-particle traveltimes, 21.11–720
See also **Smoot, G. F.**, 21.12–103

Bucharest. Observatorul de Fizica Atmosferei
Anuarul, No. 7, 1967 [Yearbook, No. 7, 1967], 21.10–42

Buchau, Jurgen
Airborne observation of the midday aurora (*with* **Whalen, James A.** and **Akasofu, S. I.**), 21.10–502

Buchinskiĭ, I. E.
Meteorologiia i klimatologiia na Ukraine v period 1927–1940 gg. [Meteorology and climatology in the Ukraine, 1927 to 1940], 21.3–9

Buchot, C.
Évolution du manteau neigeux en Haute Tarentaise [Snow cover development in Haute Tarentaise], 21.1–626

Buchtele, Josef, *see* **Hladný, J.**, 21.4–523

Buck, Robert N.
Weather flying, 21.11–04

Buckingham, A. G.
Uses of orbiting reflector satellites (*with* **Watson, H. M.**), 21.2–120

Buckler, S. J.
Vertical wind profile of monthly mean winds over the prairies, 21.9–262

Buckley, R. J., *see* **Bain, W. F.**, 21.8–160

Bucuța, Emanoil
Studiile efectuate pentru determinarea ploii de calcul a canalizărilor din București [Studies for the determination of design rainfall intensity within the storm sewers system of Bucharest] (*with* **Busea, N.**), 21.6–608

Budagovskiĭ, A. I.
Rezul'taty issledovaniĭ ispareniia s oroshaemykh poleĭ Sredneĭ Azii [Results of investigations of evaporation from irrigated fields in Central Asia] (*with* **Minaeva, E. N.**), 21.5–556
Vertikal'noe raspredelenie potokov dlinnovolnovoĭ radiatsii i radiatsionnogo balansa v rastitel'nom pokrove [Distribution of the long-wave radiation fluxes and radiation balance in plant cover] (*with* **Ross, Iu. K.** and **Tooming, Kh. G.**), 21.1–420

Budashkina, L. V.
O raspredelenii temperatury i vlazhnosti v gornykh raionakh khrebta Zailiiskii Alatau v le tnee vremia [Temperature and humidity distributions in mountain regions of the Trans-Ili Ala-Tau in summer], 21.12–453

Budilova, E. P.
Naturnye ispytaniia smesi NaCl s tsementom v kachestve reagenta dlia vozdeĭstviia na moshchnye kuchevye oblaka [Practical experiments with a mixture of sodium chloride and cement as a reagent for seeding large cumulus clouds], 21.11–7R

Bud'ko, N. I.
O vozbuzhdenii svistiashchimi atmosferikami nizhnego gibridnogo rezonansa v okrestnosti dvizhushchegosia v plazme tela [Excitation of the low hybrid resonance in the vicinity of a body moving in

a plasma by whistling atmospherics] [and English transl.], 21.5–339

Budretskii, A. B.
Raboty na stantsii Molodezhnoi [Activities at Molodeznaya station], 21.8–37

Budyko, Mikhail Ivanovich
[Comments on] **William D. Sellers**: Global climatic model based on the energy balance of the Earth–atmosphere system and [Reply by] **Sellers**, 21.12–562
Effect of solar radiation variations on the climate of the Earth, 21.10–261
Glavnaia Geofizicheskaia Observatoriia imeni A. I. Voeĭkova [The Voeikov Main Geophysical Observatory], 21.10–33
Izmeneniia klimata [Climatic change], 21.4–323; 21.9–16R
O prichinakh izmeneniĭ klimata v geologicheskom proshlom [Reasons for climatic changes in the geological past], 21.12–3R
See also **Leningrad Glavnaia Geofizicheskaia Obs.**, 21.12–25R

Budziński, Karol
Ein Beitrag zur Bestimmung der Erhöhung der Verunreinigungsniveaus in atmosphärischer Luft durch neue Emissionsquellen [Contribution to computing the level of atmospheric pollution by new emission sources], 21.7–249
Ogolna metoda rachunkowego okreslania wpływu nowych zrodeł emisji na stan zanieczyszczenia powietrza atmosferycznego [General method of numerical evaluation of new emission source influence on atmospheric air pollution], 21.7–136

Budziszewska, Elżbieta
Przypadek wystąpienia niskotroposferycznego prądu strumieniowego u powierzchni Ziemi w Karpatach Zachodnich [A case of occurrence of low-troposphere jet streams at the Earth's surface in the West Carpathians] (*with* **Morawaka, Maria**), 21.7–509
Uwagi o wysokości tropopauzy w pewnych przypadkach prądów strumieniowych nad Europa [Comments on tropopause height under certain conditions of stream currents over Europe], 21.4–50

Bue, Conrad D.
Streamflow from the United States into the Atlantic Ocean during 1931–60, 21.12–698

Buecher, Roger W., *see* **Odencrantz, F. Kirk**, 21.8–651

Büdel, Julius
System der klima-genetischen Geomorphologie [System of climatic-genetic geomorphology], 21.10–451

Büger, P., *see* **Eichmeier, J.**, 21.11–280

Bühler, F.
Apollo-11 solar wind composition experiment: first results (*with others*), 21.8–261

Buehler, W. E., *see* **Lunden, C. D.**, 21.10–326

Buettner, Konrad J. K.
On the uses of intermediate infrared an microwave infrared in meteorologica satellites (*with others*), 21.5–456

Buffalano, Charles, *see* **Grobman, W. D** 21.3–711

Buffoni, L.
Accelerazione secolare di Echo 2 pe effetto della pressione di radiazion solare [Effect of solar radiation pressure on the secular acceleration of Echo-2] (*with* **Manara, A.**), 21.1–421

Bugaev, Iu. G.
Vertikal'naia sostavlilaiushchaia refraktsii v Antarktide [Vertical refraction component in Antarctica] (*with* **Lazarev, G. E.**), 21.12–318

Bugaev, V. A.
Analiz sostoianiia atmosfery nad zemnym sharom po snimku s vysoty 90,000 km, poluchennomu kosmicheskoĭ stantsieĭ Zond-5 [The analysis of atmospheric state over the globe from the picture taken by the Zond-5 space station from a distance of 90,000 km] (*with others*), 21.3–149
Analiz sostoianiia atmosfery po snimku s vysoty 70,000 km, sdelannomu 8 avgusta 1969 g. kosmicheskoĭ stantsieĭ "Zond-7" [Analysis of the state of the atmosphere from the picture taken by the space station "Zond-7" at the altitude of 70,000 km on August 8, 1969] (*with* **Popova, T. P.**), 21.11–78
Analysis of the biennial oscillation of zonal wind in the equatorial zone stratosphere (*with others*), 21.5–519
Struktura oblachnosti v tsentre tsiklona po fotografiiam s kosmicheskogo korablia "Soiuz-4" [Structure of clouds at the center of the cyclone from photographs made from the spacecraft "Soyuz-4"] (*with others*), 21.12–377

Bugaeva, I. V.
O strukture zonal'noĭ i meridional'noĭ tsirkuliatsii v stratosfere i mezosfere [The structure of zonal and meridional circulation in the stratosphere and mesosphere] (*with* **Riazanova, L. A.**), 21.2–88
Predvaritel'nye rezul'taty analiza srednikh mesiachnykh radiatsionnykh kart po dannym iskusstvennykh sputnikov Zemli [Tentative results of the analysis of mean monthly radiation charts from satellite data] (*with* **Riazanova, L. A.**), 21.3–544
Velopauza i rezhim letneĭ stratosfernoĭ tsirkuliatsii [The velopause and regime of the summer stratospheric circulation], 21.6–510
Bui, The Chuong, *see* **Benarie, M.,** 21.7–58
Buikov, M. V.
Influence of cloud ice particles on the activation of condensation nuclei and the oscillations of precipitation intensity, 21.12–494
Nekotorye zakonomernosti rasprostraneniia iskusstvennoĭ kristallizatsii v pereokhlazhdennykh sloistykh oblakakh [Some regularities in propagation of artificial crystallization in supercooled stratus clouds] (*with* **Polovina, I. P.**), 21.10–126
O regulirovanii osadkov iz frontal'nykh oblakov [The control of precipitation from frontal clouds], 21.5–200
Vliianie vypadaiushchikh osadkov na aktivatsiiu iader kondensatsii [The influence of falling precipitation on the activation of condensation nuclei], 21.10–372
Buinevich, A. G., *see* **Vladimirov, O. A.,** 21.9–729
Buitner, E. K., *see* **Bortkovskiĭ, R. S.,** 21.3–490
Bukata, R. P.
Neutron monitor and Pioneer 6 and 7 studies of the January 28, 1967 solar flare event (*with others*), 21.9–538
See also **Palmeira, R. A. R.,** 21.7–417
Bukovszky, G.
Analyse de la relation entre les précipitations et le débit de crue à l'aide d'une triple transformation basée sur la méthode de l'hydrogramme unitaire [Analysis of the relation between precipitation and flood discharge by use of a triple transformation based on the unit hydrograph method] (*with* **Zsuffa, I.**), 21.9–307
Bulanova, L. K.
Koeffitsienty teploobmena i vosstanovleniia businkovogo termosoprotivleniia [Heat transfer coefficient and recovery coefficient of a thermistor] (*with* **Kokin, G. A.**), 21.12–88
Bulatov, S. N.
O raschete pritoka tepla k nizhneĭ poverkhnosti ledianogo pokrova vodokhranilishch zimoĭ [Calculating the influx of heat to the lower surface of the ice cover of reservoirs during the winter], 21.3–573
Peculiarities of temperature and velocity conditions of Bratsk water reservoir under ice cover, 21.9–17R
Raschet prochnosti taiushchego ledianogo pokrova rek i vodokhranilishch [Calculation of the strength of melting ice covers of rivers and reservoirs], 21.6–819
Buldovskiĭ, G. S.
Aerosinopticheskie usloviia vozniknoveniia turbulentnosti v stratosfere nad srednimi shirotami SSSR [Aerosynoptic conditions for the onset of stratospheric turbulence at mid-latitudes of the U.S.S.R.], 21.9–256
Meteorologicheskie usloviia vozniknoveniia boltanki samoletov v stratosfere [Meteorological conditions for the generation of bumpiness in the stratosphere], 21.7–471
Bulinskaia, N. A.
Analiz tsirkuliatsii atmosfery dlia tseleĭ prognoza [Analysis of atmospheric circulation for prediction purposes], 21.1–375
Bull, Colin
1978–1980 surge of the Sherman glacier, South-Central Alaska, 21.10–784
Bullemer, Bernhard (ed.), *see* **International Symposium on Physics of Ice, Munich, Germany, 1968,** 21.7–820
Bullen, J. M.
Nighttime decreases in F2-layer heights at near conjugate stations in low latitudes, 21.10–155
Bullock, Ben R.
Contribution of infrared cooling to the vertical motion field and its implication in atmospheric energetics (*with* **Horn, Lyle H.** and **Johnson, Donald R.**), 21.1–535
Bullrich, K., *see* **Danzer, K. H.,** 21.4–136

Bultot, F.
  Lectrice semi-automatique pour depouillement des diagrammes climatologiques conventionnels [Semiautomatic pickup for conventional climatological diagrams] (*with* **Dupriez, G. L.**), 21.12–48
Bumba, V.
  Correlation between CA plages and longitudinal magnetic fields of the CSSAR active regions, 21.1–697
  Flare activity and spotgroup development, 21.1–698
  Last phases of development of active regions (*with others*), 21.2–459
  Patterns of active region magnetic field development (*with others*), 21.2–460
Bunakova, A. M.
  O vertikal'nom raspredelenii aerozolia i aerozol'nykh sloiakh v atmosfere [On the vertical aerosol distribution and aerosol layers in the atmosphere] (*with* **Ivlev, L. S.**), 21.10–11R
  See also **Kondrat'ev, K. Ia.**, 21.10–26R
Bundy, McGeorge
  Charting the complexities, 21.11–157
Bunker, Andrew F.
  Tropical Indian Ocean clouds (*with* **Chaffee, Margaret**), 21.10–369
Bunkin, F. V.
  Sluchaĭnye prostranstvennye vybrosy intensivnosti pri r rasprostranenii volny cherez turbulentnuiu atmosferu [Random spatial outbreaks of intensity in propagating a wave through the turbulent atmosphere] (*with* **Gochelashvili, K. S.**) [and English transl.], 21.3–584
Bunner, A. N.
  Soft X-ray background flux (*with others*), 21.5–462
Buoni, Franco
  Gavitello meteorologico da una radiosonda modificata [A meteorological buoy of a modified radiosonde] (*with* **Zancla, A.**), 21.11–62
Burbidge, G.
  Discrete X-ray sources: a theoretical appraisal, 21.11–562
  See also **Wolfe, A. M.**, 21.2–433
Burd, R. S.
  Evaluation of water quality standards (*with* **Fry, F. E. J.**), 21.2–618
Burdakov, F. I.
  Ob odnom metode izmereniia intensivnosti radioekho v meteorologicheskikh radiolokatorakh [A method for measuring the radio echo intensity by meteorological radars] (*with* **Zavelevich, I. M.** and **Nikolaev, P. N.**), 21.11–195
Burdecki, Feliks
  Study of the thermal structure of the Antarctic Ice Cap, 21.3–753
Burford, J. N., *see* **Saxena, V. K.**, 21.6–110
Burger, Marijke
  Equator–pole effect in the central intensities of some strong Fraunhofer lines (*with* **Houtgast, J.**), 21.6–730
Burgess, Alan
  Effects of electron and radiation density on dielectronic recombination (*with* **Summers, H. P.**), 21.5–719
Burgess, B.
  Search for the effect of stellar X-rays on the nighttime lower ionosphere (*with* **Jones, T. B.**), 21.8–168
Burgess, Lawrence C. N.
  Airphoto interpretation as an aid in flood susceptibility determination, 21.8–470
Burikov, E. A.
  Osobennosti radiatsionnogo rezhima rastitel'nogo pokrova v zavisimosti ot ego struktury [Characteristics of the radiation regime of the plant cover as a function of its structure], 21.1–422
Burkard, Otto M.
  Elektroneninhalt der Ionosphäre über Graz: eine dreijährige Beobachtungsreihe [Electron content of the ionosphere over Graz: three years of observations], 21.11–176
Burkardt, Lohr A.
  Compositional effects on ice nuclei activity (*with others*), 21.11–370
  See also **Finnegan, W. G.**, 21.5–578
Burke, Rudolf R.
  Hydrogen atom participation in D-region ion chemistry, 21.9–151
Burke, T. P.
  Capture of small ions by particles (*with* **Dalu, G.**), 21.8–612
  Conducibilità elettrica dell'aria in presenza di nebbia [The electrical conductibility of the air in the presence of fog] (*with* **Dalu, G. A.** and **Dalu, G.**), 21.1–574
  Contatore a fotocellula per nuclei di condensazione [Photoelectric condensation nuclei counter] (*with* **Dalu, G. A.** and **Dalu, G.**), 21.6–106
  Esame delle possibilità di rimozione del radon dall'atmosfera [Examination of the possibility of removing radon from

the atmosphere] (*with* **Dalu, G. A.** and **Dalu, G.**), 21.1–339

Burkham, D. E.
  Error analysis of streamflow data for an alluvial stream (*with* **Dawdy, D. R.**), 21.12–702

Burkholder, Paul R., *see* **Orlando, A. M.**, 21.3–683

Burkov, V. A.
  Tsirkuliatsiia pridonnykh vod Tikhogo okeana [Bottom circulation in the Pacific] [and English transl.], 21.4–716

Burlaga, Leonard F.
  Directional discontinuities in the interplanetary magnetic field, 21.2–411
  Heating of the solar wind (*with* **Ogilvie, K. W.**), 21.7–365
  Large velocity discontinuities in the solar wind, 21.2–134
  Tangential discontinuities in the solar wind (*with* **Ness, N. F.**), 21.6–400
  See also **Ogilvie, K. W.**, 21.9–226

Burlak, G. N.
  Mekhanizatsiia obrabotki materialov zarubezhnykh raketnykh i radiozondovykh nabliudeniĭ na baze ETSVM "Razdan-2" [Mechanization of processing material from foreign rocket and radio-probe observation data by use of the computer "Razdan-2"], 21.11–23

Burleson, Frank R., *see* **Stephens, Edgar R.**, 21.12–264

Burley, David R., *see* **Pitts, J. N. Jr.**, 21.4–23

Burley, Michael John
  Desalination as a supplementary water resource (*with* **Mawer, P. A.**), 21.9–689

Burling, R. W., *see* **Stewart, R. W.**, 21.11–240

Burmistrova, V. D.
  O sopriazhennosti antitsiklogeneza v subtropicheskikh poiasakh severnoĭ i iuzhnoĭ chasteĭ Tikhogo okeana [Coordination between the anticyclogenesis in subtropical zones of North and South Pacific oceans], 21.9–18R

Burn, James W.
  Determination of atmospheric temperature profiles from planetary limb radiance profiles (*with* **Uplinger, W. G.**), 21.10–27

Burnash, Robert J. C.
  Statistical analysis as a flood routing tool, 21.8–785

Burnell, Jocelyn
  Enhancements of interplanetary scintillation, corotating streams and Forbush decreases, 21.4–465

Burnham, J.
  Thunderstorm turbulence and its relationship to weather radar echoes (*with* **Lee, Jean T.**), 21.7–472

Burnichon, M. L., *see* **Laffineur, M.**, 21.9–553

Burns, L. M. D.
  Evaluation of precipitation forecasts for the St. John River Valley (*with* **Dickinson, R. B. B.**), 21.11–128

Burroughs, W. J.
  Submillimetre absorption by isotopic and vibrationally excited forms of water vapour (*with* **Harries, J. E.** and **Gebbie, H. A.**), 21.2–237
  See also **Birch, J. R.**, 21.3–638; **Gebbie, H. A.**, 21.7–747

Burrows, Donald A.
  Comments on Peter V. Hobbs: Ice multiplication in clouds (*with* **Robertson, C. E.**), 21.5–596

Burrows, F. J.
  Diffusive conductivity of sugar beet and potato leaves, 21.9–276

Burrows, J. R., *see* **McDiarmid, I. B.**, 21.7–376

Burrows, W. G.
  High frequency variations in the fading characteristics of tropospheric transmissions, 21.9–134

Burruss, R. C., *see* **Cawley, J. L.**, 21.3–332

Burt, E. O., *see* **Stewart, E. H.**, 21.8–353

Burt, Kenneth, *see* **Winn, A. L.**, 21.3–780

Burt, Wayne V., *see* **Mesecar, Roderick S.**, 21.7–847; **Pattullo, J. G.**, 21.2–701; **Quinn, W. H.**, 21.6–139

Burtis, W. J.
  Banded chorus (*with* **Helliwell, R. A.**), 21.2–379

Burton, J. D., *see* **Banoub, M. W.**, 21.4–685

Burton, W. M.
  Extreme ultraviolet observations of active regions in the solar corona, 21.2–498
  Solar photography in the extreme ultraviolet, 21.5–721

Burtsev, A. I.
  Ageostroficheskie modeli prognoza [Ageostrophic prediction model], 21.8–85
  Prognoz oblachnosti osadkov (Cloudiness and precipitation prediction), 21.8–86

Burtt, G. J., *see* **Edwards, P. J.**, 21.10–163

Burunsuzian, E. S.
Koeffitsient shuma radioteleskopa [The noise coefficient of a radiotelescope], 21.4–436
Busch, N. E.
Recent spectra of atmospheric turbulence (*with* **Panofsky, H. A.**), 21.1–366
Waves and turbulence (*with others*), 21.10–222
Bushby, F. H.
Further developments of a model for forecasting rain and weather, 21.3–229
Businger, J. A.
Justification for neglecting the third moment in the steady state expression for the turbulent heat flux near the ground (*with* **Miyake, M.**), 21.1–489
Sonic anemometer comparison and measurements in the atmospheric surface layer (*with others*), 21.5–121
Busse, F. H.
Bounds for turbulent shear flow, 21.11–231
Butcher, E. C.
Measurement of a lunar tide in the phase height of the E-region (*with* **Weekes, K.**), 21.7–176
Some phase height measurements on the E-region, 21.6–223
Butoi, Speranta, *see* **Diaconescu, Gh. I.,** 21.1–348, 21.4–81
Butov, N. N.
Nekotorye rezul'taty aktivnykh vozdeistvii na pereokhlazhdennye oblaka sloistykh form v Pskemskoi doline [Some results of seeding of supercooled layer clouds in the Pskem Valley] (*with others*), 21.9–111
Buttenberg, M.
Ein Beitrag zur Aufstellung mesometeorologischer Vorhersagen mittels einer objektiven statistischen Methode [Contribution to the preparation of mesometeorological forecasts, using an objective statistical method], 21.10–103
Buttimor, P. H., *see* **Davies, J. A.,** 21.6–354
Buz, A. I.
Veroiatnost' obnaruzheniia malomasshtabnykh iavlenii v zavisimosti ot ikh razmerov i gustoty nabliudatel'noi seti [Probability of discovering small scale phenomena in relationship to their dimensions and density of the observation network], 21.10–34
Buzea, Nicolae
Caracteristicile repartiţiei teritoriale ale unor ploi căzute în bazinul colectorului B3 şi în alte zone ale oraşului Bucureşti [Peculiarities of areal distribution of some rains in B3 catchment area and other zones of the city of Bucharest] (*with* **Ghita, I.**), 21.7–596
See also **Bucuta, E.,** 21.6–608
Bybordi, M.
Vertical movement of water in stratified porous material, Pt. 2, 21.4–569
Bychkova, T. N., *see* **Kochubeĭ, S. G.,** 21.4–526
Byers, Horace R.
Cumulus cloud structure and dynamic from aircraft observations, 21.1–582
Bykov, V. D.
Water resources of the world and their spatial and temporal variations (*with* **Kalinin, G. P.**) [Transl. from Russian], 21.4–512
Bykov, V. V.
Ob odnom metode resheniia zadachi kratkosrochnogo prognoza pogody s pomoshch'iu polnykh uravnenii gidrodinamiki [A method of solving the problem of short range weather forecasting by primitive equations], 21.8–87
Primenenie polnykh uravnenii gidrodinamiki k prognozu meteorologicheskikh elementov i opyt operativnoi raboty [Application of the primitive equations of hydrodynamics to forecasting meteorological elements and an operational attempt], 21.8–88
Bykova, L. P., *see* **Matveev, L. T.,** 21.8–142
Byram, George M., *see* **Keetch, John J.,** 21.7–617
Byrne, G. F.
Resistive element solarimeter (*with* **Rose, C. W.** and **Torssel, B. W. R.**), 21.6–73
Byrne, R. E., *see* **O'Brien, K. G.,** 21.2–112
Byshev, V. I.
Strukturnye kharakteristiki atmosfernoĭ turbulentnosti i privodnom sloe nad otkrytym okeanom [Characteristic structure of atmospheric turbulence in near-water layer over the open ocean (*with* **Kuznetsov, O. A.**) [and English transl.], 21.4–196
Byshovets, L. B.
Uchet vliianiia vodokhranilishch pri detal'nom raschete gidrografa stoka [Consideration of the effect of reservoirs in detailed calculations of a hydrograph], 21.4–580
Vliianie ruslovogo regulirovaniia na formirovanie polovodnogo stoka malykh

rek Ukrainy [The effect of channel regulation on the formation of high-water flow of small Ukrainian rivers], 21.4–588

See also **Zhelezniak, I. A.**, 21.8–787

Byzova, N. L.

Nekotorye rezul'taty izmereniĭ kharakteristik temperaturnogo polia v nizhnem 300-metrovom sloe atmosfery [Some results on the measurements of temperature field characteristics in the lower 300 m layer of the atmosphere] (*with* **Vial'tseva, E. E.**), 21.3–550

C

Cabane, M., *see* **Bricard, J.**, 21.9–430

Cable, Dwight R.

Soil temperature variations on a semi-desert habitat in Southern Arizona, 21.2–203

Cade, C. Maxwell

Taming of the thunderbolts (*with* **David, D.**), 21.8–624

Cadenas de Llano, F. Lopez

Role of vegetation in the hydrological balance of a watershed (*with* **Blanco Criado, M.**), 21.11–686

Cădere, Radu

Consideraţii hidrogeologice privind Valea Moldovei dintre Gura Humorului şi Baia [Hydrogeological consideration on the Moldava Valley between Gura-Humorului and the Baia area] (*with* **Ţenu, S.** and **Ţenu, A.**), 21.4–535

Čadež, Marjan

Äussere Reibung der Luft strömungen über nichthomogenem Boden [External friction of the air currents over an inhomogeneous Earth] (*with* **Ertel, Hans**), 21.1–358

Transport de l'énergie dans l'atmosphère et premier principe de la thermodynamique [Energy transfer in the atmosphere and the first principle of thermodynamics], 21.2–82

Cadle, Richard D.

Atmospheric photochemistry (*with* **Allen, E. R.**), 21.6–163

Cagnetti, Pietro

Condizioni medie di stabilità nei bassi strati della atmosfera per le stazioni meteorologiche italiane [Mean stability conditions in the lower atmospheric layers for the Italian meteorological stations] (*with* **Giudici, G.** and **Rosini, E.**), 21.2–84

Cahal, Donald I., *see* **Smoot, G. F.**, 21.9–578

Cahill, L. J., Jr., *see* **Potter, W. E.**, 21.8–196

Cahir, John, *see* **Neuberger, H.**, 21.8–501

Cairns, C. D., *see* **Harrison, A. W.**, 21.11–532

Cairns, J. L.

Description of the seasoanl thermocline cycle in shallow coastal water (*with* **Nelson, K. W.**), 21.7–460

Calder, K. L.

In clarification of the equations of shallow-layer thermal convection for a compressible fluid based on the Boussinesq approximation, 21.1–539

Caldwell, Douglas R.

Sensors in the deep sea (*with* **Snodgrass, F. E.** and **Wimbush, M. H.**), 21.3–781

California. Dept. of Water Resources

Weather modification operations in California, Oct. 1, 1966–Sept. 30, 1967, 21.5–201

California. Univ., Los Angeles

Annual Report, 21.8–771

California. Univ., San Diego. Institute of Marine Resources

Physical, chemical and biological data: Cruise TO-64-1, June 1964 and Cruise TO-64-2, August 1964, 21.9–186

Scripps Tuna Oceanography Research (STOR) Program, 21.4–628

Scripps Tuna Oceanography Research (STOR) Program Report for the half-year, July 1–Dec. 31, 1968, 21.9–110

Scripps Tuna Oceanography Research (STOR) Program: Report for the year July 1, 1968–June 30, 1969, 21.9–111R

California. Univ. Scripps Institution of Oceanography, La Jolla

Annual Report for the year ending June 30, 1967, 21.9–112R

Annual report for the year ending June 30, 1968, 21.9–113R

Progress report on research sponsored by Office of Naval Research, July 1967–June 1968, 21.1–715

Surface water temperatures at shore stations, United States west coast, 1968, 21.9–225R

See also **Zalkan, R. L.**, 21.4–779

Călinescu, Nina, *see* **Ţîsţea, D.**, 21.6–445

Callus, F., *see* **Trefry, G.**, 21.3–408

Calvert, D. V., *see* **Ford, H. W.,** 21.4–395
Calvert, W.
  Ionospheric irregularities observed by topside sounders (*with* **Warnock, J. M.**), 21.10–156
Calvo Canales, F., *see* **Bancarel, J. P.,** 21.5–149
Cambou, F.
  Résultats récents sur l'étude du rayonnement X auroral [Recent results of the study of auroral X-rays] (*with* **Maral, G.** and **Treilhou, T. P.**), 21.6–401
Cambray, R. S., *see* **Pierson, D. H.,** 21.12–348
Cameron, A. G. W.
  Fundamental problems of the solar system, 21.2–434
  See also **Brancazio, P. J.,** 21.1–24
Cameron, R. L.
  Glaciology on the Queen Maud Land traverse, 1964–1965: South Pole–Pole of Relative Inaccessibility (*with others*), 21.1–140
Camnitz, H. G., *see* **McVehil, G. E.,** 21.3–589
  See also **Peace, R. L. Jr.,** 21.3–629
Camp, Dennis W.
  Comparison of tower influence on wind-velocity for NASA's 150-meter meteorological tower and a wind tunnel model of the tower (*with* **Kaufman, John W.**), 21.10–69
Campbell, A. P.
  Climatology of the sub-tropical jet stream associated with rainfall over eastern Australia, 21.4–283
Campbell, D. A.
  Aerogronomy—aerial mechanisation of watershed management in New Zealand, 21.9–611
Campbell, G. S.
  Measurement of air temperature fluctuations with thermocouples, 21.11–86
Campbell, Ian A.
  Climate and overgrazing on the Shonto Plateau, Arizona, 21.11–446
Campbell, J. A., *see* **Stander, G. H.,** 21.4–729
Campbell, J. Logan
  Republic of Liberia (*with* **Sawyer, J. Lawrence**), 21.11–95R
Campbell, N. J.
  Federal limnological research program on Lake Erie and Lake Ontario (*with* **Lane, R. K.**), 21.9–660
Campbell, Wallace H.
  Concurrent equatorial and high-latitude geomagnetic pulsations, 21.5–739
  Induction loop antennas for geomagnetic field variation measurements, 21.5–727
Canada. Defence Research Board
  List of Defence Research Board translations (T-series). Recapitulatory supplement as of Sept. 20, 1969 to List of translations (T-series) of April 30, 1959, 21.9–127R
Canada. Dept. of Energy, Mines and Resources
  General water conditions of Canada, 21.11–95R
  Water levels, 1968, 21.9–223R
Canada. Dept. of External Affairs, Ottawa. Information Div.
  Canada and the World Meteorological Organization, 21.12–22R
Canada. Forest Fire Research Institute, Ottawa
  Program review, 1967 and 1968, 21.8–685
Canada. Meteorological Branch
  Aerial ice reconnaissance and ice advisory services Canadian Arctic, April 10, 1969–Nov. 15, 1969, 21.9–182R
  Arctic summary: a semi-annual summary of meteorological data from the Joint Arctic and other weather Stations on the Arctic Islands: July to Dec. 1967, 21.9–224R
  Ice summary and analysis, 1966, Canadian Arctic, 21.9–184R
  Ice summary and analysis 1967, Eastern Canadian seaboard, 21.9–171R
  Ice Summary and analysis, Hudson Bay and Approaches, 1967, 21.9–183R
  MANOBS: manual of standard procedures for surface weather observing and reporting, 21.9–100R
  Mean daily global solar radiation, in langleys, 21.1–443
  Mean monthly cloud amount (tenths of sky covered) . . . based on period 1941–1960, 21.1–598
  Mean monthly number of hours of bright sunshine . . . based on period 1931–1960, 21.1–441
  Mean vapour pressure (MB), 21.1–550
  Monthly Bulletin, 21.5–79
  1969 seasonal outlook of ice conditions in northern Canadian waters, 21.2–627
  Teldis: meteorological teletype traffic distribution, 21.1–212

Thirty day ice forecast for northern Canadian waters, mid-July to mid-August 1969, 21.4–618
Canada. Oceanographic Data Centre, Ottawa
Cabot Strait, Aug. 8 to Oct. 8, 1966, 21.2–673
Davis Strait and Northern Labrador Sea, August 27–October 22, 1965, 21.9–172R
East Greenland, Denmark Strait and Irminger Sea, Jan. 16–Apr. 5, 1967, 21.2–674
Gulf of St. Lawrence, Nov. 14 to Nov. 24, 1968, 21.9–174R
Gulf of St. Lawrence and Scotian Shelf, June 9–Sept. 22, 1967, 21.9–173R
Ocean Weather Station "P" North Pacific Ocean, Sept. 15–Dec. 7, 1967, 21.9–187R
Ocean Weather Station "P" North Pacific Ocean, May 17–Aug. 15, 1968, 21.9–188R
Scotian Shelf: two surveys, June 3–6, 1968 [and] Oct. 16–29, 1968, 21.9–175R
Canadian Geophysical Bulletin [Ottawa]
Vol. 21, 21.3–10
Canadian Scientist [Toronto], 21.1–147
Candau, M. G.
Water for living, 21.11–668
Caneva, Azzio, *see* **Bossolasco, Mario,** 21.7–721
Cannata, Paolo, *see* **Visconti, I.,** 21.4–25
Cannon, Glenn A.
Observations of motion at intermediate and large scales in a coastal plain estuary, 21.4–790
Cannon, Theodore W.
High-speed photography of airborne atmospheric particles, 21.6–581
Cano Lucaya, Natalio
Contribución al conocimiento del mar de Alborán, [Pt.] 1, [Contribution to the knowledge of the Alboran Sea], 21.2–738
Variación estacional de la inclinación transversal de la superficie de separación de las aguas atlántica y mediterránea en el Estrecho de Gibraltar [Seasonal variation of the transverse slope of the interface of Atlantic and Mediterranean waters in the Strait of Gibralter] (*with* **Fernandez Castillejo, F.**), 21.2–752
Canovan, R. A.
"Cold spell" of September 1952 to April 1953, 21.3–111
Cantu, Vittorio
Sulla distribuzione della nebbia in Italia, [Fog distribution in Italy], 21.6–577
Uomo nell'equilibrio della natura [Man and the equilibrium of the natural environment], 21.8–117
Cantuel, J., *see* **De Cormis, L.,** 21.7–140
Capelli, M., *see* **Visconti,** 21.12–375
Caplan, Knowlton J.
Source control by centrifugal force and gravity, 21.1–287
Capurro, Luis R. A.
Research program in cooperation with Argentina, 1968–1969, 21.4–642
Căpuz, C., *see* **Zarea, St.,** 21.10–125
Carach, J., *see* **Čupka, Š.,** 21.1–347, 21.3–403
Carchia, Marilyn, *see* **McLean, George,** 21.10–66R
Cardinale, A., *see* **Bottino, A.,** 21.6–398
Carey, Roger B.
FCC/USAF POPSI Project (*with* **Hutton, D. B.** and **Kalagian, G. S.**), 21.9–47
Carleton, N. P.
Energy transfer to and through ionospheric electrons, 21.3–383
Carlqvist, P.
Current limitation and solar flares, 21.10–651
Solar flares caused by high impedance regions in current filaments, 21.1–699
Carlson, Arthur V.
Observing the dynamic characteristics of the atmosphere with the meso cavity specular integrating refractometer (MCSIR system), (*with* **Lamb, James J.**), 21.1–480
Carlson, Toby N.
Hurricane genesis from disturbances formed over Africa, 21.12–384
Some remarks on African disturbances and their progress over the tropical Atlantic, 21.6–318
See also **Prospero, J. M.,** 21.12–330
Carlstead, Edward M.
Verification of an objective method to forecast frontal passages in the Hawaiian Islands, 21.8–110
Carlston, Charles W.
Downstream variations in the hydraulic geometry of streams, 21.2–601
Slope-discharge relations for eight rivers in the United States, 21.2–579
Carman, E. H.
Predawn enhancement of 6300 A airglow in conjugate regions (*with* **Hatzopoulos, G. J.** and **Heeran, M. P.**), 21.8–245

Carman, E. H.
Simple airglow photometer with improved red sensitivity (*with* **Heeran, M. P.** and **Wiltshire, V.**), 21.3–517

Carmichael, H.
Analysis of IQSY cosmic-ray survey measurements (*with* **Bercovitch, M.**), 21.7–399
Cosmic-ray latitude survey in Canada in December, 1965 (*with* **Bercovitch, M.**), 21.7–400
Cosmic-ray latitude survey in North America in summer, 1965 (*with others*), 21.5–466
Cosmic-ray latitude survey in Western USA and Hawaii in summer, 1966 (*with* **Shea, M. A.** and **Peterson, R. W.**), 21.5–467
Geographically smoothed geomagnetic cutoffs, 21.7–401
Ground-based synoptic observations of cosmic rays, 21.9–231

Carneiro, Lucia Maria Pinto, *see* **Dos Santos, J. M.,** 21.12–409

Carnevale, R. F., *see* **Skrivanek, R. A.,** 21.10–640

Carnuth, Walter
Ergebnisse einer Nach-Eichung von automatischen Aitkenkernzählern nach Rich [Results of a comparison calibration of Rich-type automatic Aitken nuclei counters], 21.10–86
See also **Reiter, R.,** 21.8–619, 429

Carpenter, R. O.
Atmospheric nitric oxide measurement techniques (*with* **Schuler, C.** and **Pressman, J.**), 21.9–117

Carpenter, T. G., *see* **Sutcliffe, J. V.,** 21.2–539

Carr, D. L., *see* **Sharp, R. D.,** 21.11–523

Carr, M. K. V.
Report on research into the water requirements of tea in East Africa, 21.9–352

Carr, Thomas D.
Magnetosphere of Jupiter (*with* **Gulkis, S.**), 21.11–580

Carr, Thomas R., *see* **O'Neill, T. H. R.,** 21.9–9

Carrara, N.
On the radiant distribution of sporadic meteors (*with others*), 21.11–600

Carreri, Cesare
Progetto dell'antenna trasmittente di un sistema radar multistazione per lo studio dell'alta atmosfera e delle meteore [Project for a transmitting antenna of a multi-station radar system for the stud of the upper atmosphere and of meteors (*with others*), 21.3–211

Carrigan, Anne L. (ed.), *see* **Geophysic and Space Data Bulletin,** 21.11–57R

Carrigan, P. H., Jr.
Radioactive waste dilution in the Clinc River, eastern Tennessee, 21.2–597

Carroll, J. J., *see* **Ryan, J. A.,** 21.5–423

Carroon, L. E.
Correlative estimates of streamflow in th upper Colorado River Basin, 21.10–747

Carru, H.
Étude par diffusion de Thomson des variations de la température exosphériqu [Study of exosphere temperature variations by the Thomson scatter techniqu (*with* **Waldteufel, P.**), 21.9–250

Carsola, Alfred James
Temperature fluctuations in the Sant Catalina Basin (*with* **Jeffress, C. H.**) 21.2–766

Carson, James E.
Validity of several plume rise formula (*with* **Moses, Harry**), 21.7–482

Carson, M. A.
Soil moisture, 21.1–650

Carson, Robert K., *see* **Plummer, W. T.,** 21.5–708

Carstens, John C.
Theory of droplet growth in clouds, Pt. 2, diffusional interaction between two growing droplets (*with others*), 21.11–374
See also **Schuster, B. G.,** 21.2–249

Carstens, T.
Turbulent diffusion and entrainment in two-layer flow, 21.12–759

Carswell, Michael Stuart
Attenuation of surface waves in dee water, 21.1–746

Carten, Andrew S., Jr.
Ground-based meteorological observing systems in the 1970's, 21.7–11
Warning: wakes, 21.10–133

Carter, C. J., *see* **Reber, E. E.,** 21.9–119; 21.12–321

Carter, H. H.
Preliminary report on the characteristics of a heated jet discharged horizontally into a transverse current, Pt. 1, Constant depth, 21.11–766

Carter, Horace S.
Georgia tropical cyclones and their effect on the state, 21.11–268

  See also **Landers, H.**, 21.4–314

Carter, J. K., *see* **Wilk, K. E.**, 21.2–102

Carter, Michael C., *see* **Williford, W. O.**, 21.3–465

Carter, Virginia L.
  Atmospheric density above 158 kilometers inferred from magnetron and drag data from the satellite OV1–15 (1968–059 Å), 21.4–36
  See also **Hudson, R. D.**, 21.3–319

Cartwright, David E.
  Extraordinary tidal currents near St. Kilda, 21.4–767
  Pelagic tidal measurements (*with* **Munk, W.** and **Zetler, B**), 21.4–766

Caruthers, J. W.
  T–S characteristics of the Gulf of Mexico at intermediate depths, 21.1–737

Casanova, H.
  Principaux types de temps en Afrique Occidentale [Principal types of weather in West Africa], 21.12–371

Casely, George P., *see* **Klein, William H.**, 21.7–92

Cashion, R. E.
  TIROS solar proton monitor test procedures and equipment, (*with* **Gary, S. A**), 21.1–148

Casseday, James H.
  Meteorology and medicine in Colonial America, 21.4–339

Cassinelli, Joseph P., *see* **Brandt, J. C.**, 21.8–259

Cassinis, Roberto
  Detection of fresh water submarine flows through "in situ" salinity measurements of seawater: preliminary results, 21.8–793

Castany, G.
  Cartes hydrogéologiques au service de la connaissance et du développement des resources en eau [Hydrogeological maps for use in research and for development of water resources] (*with* **Margat, J.** and **Monition, L.**), 21.8–789
  From catchment techniques to the strategy of optimum utilization of water resources: expansion of the role of hydrogeology (*with* **Margat, J.**), 21.9–612

Cataneo, Robert
  Fall velocities of small water droplets in still air (*with* **Semonin, R. G.**), 21.9–283
  Method for estimating rainfall rate–radar reflectivity relationships, 21.3–664

Catchpole, A. J. W.
  Thermal vagaries of a prairie April, 21.6–425

Cauwenberghe, A. R.
  Het zelfzuiveren van de atmosfer, [Pt. 6] [Self-purification of the atmosphere, Pt. 6] (*with* **Van Wichelen, S.**), 21.6–255

Cavan, Bruce P.
  Literature review of dusting technology in deicing, 21.11–754

Cavecche, E. H.
  Global look at water management (*with others*), 21.11–692

Cawley, J. L.
  Chemical weathering in central Iceland (*with* **Burruss, R. C.** and **Holland, H. D.**), 21.3–332

Cazan–Corbasca, Magda, *see* **Winter, V.**, 21.8–237; 21.10–367

Ceauşescu, Dumitru
  Asupra determinării bicarbonaţilor în apele naturale [Determining the bicarbonate in natural water], 21.5–747

Čechová, Eva
  Anwendung der Autokorrelativen und harmonischen Analyse beim Studium der Wellen im Druckfelde [Use of autocorrelational and harmonic analysis in the study of pressure field waves] (*with* **Gottwald, Aleš**), 21.1–474
  Vliv zhlazení pole "Z" otočení sítě uzlových bodů na výpočet geostrofické vorticity a advekce absolutní geostrofické vorticity [Effect of smoothing of the Z field and of the deflection of the network of junction points on computations of geostrophic vorticity and of absolute geostrophic vorticity advection] (*with* **Vondráčková, Helena**), 21.1–354

Čechová, Irina
  Prepoved odtoku zo zrážok na riece Nitrici v Lieštanoch [Forecasting of runoff from precipitations on the Nitrica River in Liestany], 21.6–632

Cehak, Konrad
  Beobachtungen der Böigkeit des Windes in mittleren Turbulenzbereichen [Observations of the gustiness of wind in the mesoscale range of turbulence], 21.7–466
  Die Persistenz der solaren und geomagnetischen Aktivität [The persistence of solar and geomagnetic activity] (*with* **Pichler, H.**), 21.6–716
  See also **Koncek, M.**, 21.7–437

Ceplekha, Zdenek
Meteor spectra: survey paper, 21.11–618
Cerchez, Nicolae, *see* **Rusu, Florin,** 21.7–694
Cermak, J. E.
Problems of atmospheric shear flows and their laboratory simulation (*with* **Arya, S. P. S.**), 21.12–355
Research and development technique for estimating airflow and diffusion parameters in connection with the atmospheric water resources program (*with others*), 21.12–189
Wind tunnel studies and simulations of turbulent shear flows related to atmospheric science and associated technologies: Report No. 4, 21.11–232
See also **Grant, L. O.,** 21.11–145; **Lin, J. T.,** 21.10–230; **Meroney, R. N.,** 21.1–371; **Sadeh, W. Z.,** 21.10–318
Čermák, Miroslav
Základní činitelé ovlivňující odtok velkých vod [The basic factors which influence the runoff of floods, 21.1–776
Cerny, Edwin E., *see* **Cook, R. Elton,** 21.10–748
Chabert d'Hieres, Gabriel
Niveaux moyens dans les mers littorales [Mean levels in the littoral seas] (*with* **Le Provost, C.**), 21.2–787
Chabot, Paul L., *see* **LaViolette, P. E.,** 21.2–211, –667; 21.9–731
Chacko, Oommen, *see* **Mani, A.,** 21.11–492
Chado Filho, Luiz Gonçalves
Hydrology of the Upper Capibaribe Basin, Pernambuco, Brazil (*with* **Dias Pessoa, M.** and **Sinclair, W. C.**), 21.4–536
Chadwick, Duane G., *see* **Riley, J. P.,** 21.11–674
Chadwick, R. C.
Field loss of radionuclides from grass (*with* **Chamberlain, A. C.**), 21.12–340
Chaffee, Margaret, *see* **Bunker, A. F.,** 21.10–369
Chahine, Moustafa T.
Determination of the temperature profile in an atmosphere from its outgoing radiation, 21.6–26
Chaianova, E. A., *see* **Kostko, O. K.,** 21.5–215
Chalfant, Donovan A., *see* **Leedham, C. D.,** 21.2–694
Chalikov, D. V., *see* **Son'kin, L. R.,** 21.9–83R
Challinor, R. A.
Neutal-air winds in the ionospheric F region for an asymmetric global pressure system, 21.3–626
Universal time control of the polar ionosphere, 21.2–67
Chalov, R. S.
Geneticheskaia kharakteristika poĭmennykh obrazovaniĭ na gornykh rekakh [Genetic characteristics of flood plains formation in mountains], 21.4–525
Chambe, G.
Emission of solar X-rays in the 0.5–3 Å wavelength range and its relation to the magnetic configuration of active centers, 21.6–403
Chamberlain, A. C.
Interception and retention of radioactive aerosols by vegetation, 21.12–341
Transport of gases to and from surfaces with bluff and wave-like roughness elements, 21.1–490
See also **Chadwick, R. C.,** 21.12–340
Chamberlain, Joseph W.
Behavior of absorption lines in a hazy planetary atmosphere, 21.6–697
Electric acceleration of auroral particles, 21.10–527
Interpretation of the Venus CO_2 absorption bands (*with* **Smith, G. R.**), 21.11–573
Champion, K. S. W.
Review of the properties of the lower thermosphere, 21.5–310
See also **Faire, A. C.,** 21.5–311; **International Council of Scientific Unions. Committee on Space Research, 11th Plenary Meeting, Tokyo, May 9–21, 1968,** 21.7–41
Chan, George L.
Water supply problems of coral atolls, 21.11–693
Chan, K. L., *see* **Colin, L.,** 21.10–159
Chan, K. W., *see* **Arnoldy, R. L.,** 21.6–396
Chandler, T. J.
Urban climates and building climatology, 21.2–336
Chandra, Harish
Horizontal drifts in the E- and F-regions over Thumba, during day-time (*with* **Rastogi, R. G.**), 21.8–169
Chandra, S., *see* **Herman, J. R.,** 21.11–190
Chaney, L. W.
Experimental Fourier-transform asymmetrical interferometer for atmospheric radiation measurements, 21.10–277

ng, C. C., *see* **Chi, S. W.**, 21.12–390;
ing, S. J., 21.6–341
ng, Chih Pei
estward propagating cloud patterns in the tropical Pacific as seen from time-composite satellite photographs, 21.6–592
tatistical study of easterly waves in the western Pacific, July–December 1964 (*with* **Morris, V. F.** and **Wallace, J. M.**), 21.7–269
ee also **Wallace, J. M.**, 21.3–439
ng, David T.
loud pattern models for extra tropical cyclogenesis (*with* **Sherr, P. E.**), 21.5–414
e also **Elterman, L.**, 21.3–344; **Greaves, J. R.**, 21.2–764
ng, Norman Jun Fai
coustic–gravity waves in the ionosphere and their effects on high frequency radio propagation, 21.11–177
ngnon, Stanley A., Jr.
imatological–technological method for estimating irrigation water requirements for maximum crop yields, 21.10–424
ail evaluation techniques, 21.4–299
ail measurement techniques for evaluating suppression projects, 21.5–202
ailstreaks, 21.6–622
surance-related hail research in Illinois during 1968, 21.5–638
ecent studies of urban effects on precipitation in the United States, 21.7–619
ecording hailgage evaluation (*with* **Staggs, D. W.**), 21.8–67
e also **Barron, N. A.**, 21.10–405; **Schickedanz, P. T.**, 21.5–639
ngraney, T. G., *see* **Shenoy, R. C.**, .10–394
nnon, J. A.
alysis of thunderstorms occurring at Namulonge, Uganda, July 1966 to June 1967, 21.10–256
o, Jih Ping
mulus dynamics (*with* **Chow, Shiao Ping**), 21.1–2
olin, J. C.
mospheric effects on the supersonic transport, 21.11–79R
olygin, E. I., *see* **Nikiforov, E. G.**, 4–707
oman, A. L.
ermal environment in clear and turbid water in the Darwin region of Northern Australia in relation to the water seeding of rice, 21.5–491

Chapman, Clark R.
Jupiter's zonal winds, 21.6–703
Chapman, G. A.
Correlations between brightness fields and magnetic fields on the Sun (*with* **Sheeley, N. R., Jr.**), 21.1–709
Chapman, G. T.
Use of large lithium-drifted, germanium diodes for gamma-ray spectral measurements at balloon altitudes (*with others*), 21.2–162
Chapman, George Earl
Stratospheric–mesospheric circulation patterns and D-region absorption, 21.11–179
Chapman, M. C., *see* **Farley, T. A.**, 21.8–268
Chapman, R. P., *see* **Wentzell, R. A.**, 21.4–664
Chapman, Sydney
Atmospheric tides, thermal and gravitational: nomenclature, notation and new results (*with* **Malin, S. R. C.**), 21.11–331
Auroral science, 1600 to 1965, towards its golden age, 21.10–503
Land evaluation: an international symposium, 21.1–34
Lunar and solar semidiurnal variations of barometric pressure at Copenhagen, 1884–1949 (66 years), 21.1–476
Notes on the computation of the solar and lunar daily magnetic variations of X and Y from hourly or bihourly values of H and declination (*with* **Gupta, J. C.**), 21.5–735
See also **Penny, J. P.**, 21.9–575
Chapovskaia, E. V.
Summarnoe isparenie s oroshaemykh zemel' Gissarskoĭ doliny Tadzhikskoĭ SSR [Evapotranspiration from irrigated lands in the Gissar Valley in the Tadzhik, S.S.R.], 21.5–557
Summarnoe isparenie s oroshaemykh zemel' vakhshskoĭ doliny Tadzhikskoĭ SSR [Evapotranspiration from irrigated lands in the Vakhsh valley in the Tadzhik, S.S.R.] (*with* **Planin, Iu. G.**), 21.7–527
Chappell, C. R.
Study of the influence of magnetic activity on the location of the plasmapause as measured by OGO-5 (*with* **Harris, K. K.** and **Sharp, G. W.**), 21.6–246
See also **Harris, K. K.**, 21.6–248; **Walt, Martin**, 21.10–523
Chappell, Charles F., *see* **Mielke, P. W., Jr.**, 21.11–139

Chappell, Richard G.
- Meteorological reconnaissance systems of the 1970's, 21.7–12

Chapurskiĭ, L. I.
- Spectral brightness of clouds and landscape objects in the visible and near infrared sectors of the spectrum (*with others*), 21.11–9R

Charakhch'ian, A. N.
- Studies of magnetic inhomogeneities in interplanetary space using solar and galactic cosmic ray measurements (*with* **Charakhch'ian, T. N.**), 21.10–292

Charakhch'ian, T. N., *see* **Charakhch'ian, A. N.**, 21.10–292; **Stozhkov, Iu. I.**, 21.9–236

Charfi, F., *see* **Renoux, A.**, 21.1–343

Charlier, Patricia S.
- Proposed pre-college oceanography (*with* **Charlier, R. H.**), 21.2–645

Charlier, R. H., *see* **Charlier, Patricia S.**, 21.2–645

Charlson, R. J.
- Atmospheric visibility related to aerosol mass concentration, 21.6–670
- Brown haze: NO_2 or aerosol? (*with* **Ahlquist, N. C.**), 21.7–137
- Climate (*with* **Pilat, M. J.**), 21.6–170
- Monitoring of atmospheric aerosol parameters with the integrating nephelometer (*with others*), 21.10–87
- Note on the design and location of air sampling devices, 21.6–107
- Use of the integrating nephelometer for studying deliquescent aerosols (*with others*), 21.12–495
- Visibility and lead (*with* **Pierrard, J. M.**), 21.6–171
- *See also* **Ahlquist, N. C.**, 21.11–491; **Pueschel, R. F.**, 21.6–182

Charney, Jule G.
- Intertropical convergence zone and the Hadley circulation of the atmosphere, 21.4–90
- Use of incomplete historical data to infer the present state of the atmosphere (*with* **Halem, M.** and **Jastrow, R.**), 21.5–29

Charnyshov, V. I., *see* **Shifrin, K. S.**, 21.8–147

Charoen-Rajapark, C.
- Evaporation and precipitation as basic data needed for planning and management of water, 21.8–349

Chartier, M. M.
- Remarques sur les crues de la Marne s perieure (Categorie III) [Remarks floods of the upper Marne, catego III] (*with* **Chauvet, J.**), 21.8–796

Chartier, Ph., *see* **Bonhomme, R.**, 21.3–62

Chase, Edith Becker
- Dye-tracing techniques: general descri tion (*with* **Payne, F. N.**), 21.11–682
- Selected techniques in water resources vestigations (*with* **Payne, F. N** 21.11–669

Chase, Peter P.
- Note on drawing probability sectors, 21. 105

Chase, Stillman C., Jr.
- Infrared radiometer for the 1969 Marin mission to Mars, 21.5–106

Chass, Robert L., *see* **George, R. E.**, 21. 138

Chaterjee, R. N.
- Result of cloud seeding experiment Delhi as assessed by radar (*with* **Bi was, K. R.** and **Ramana Murthy, B V.**), 21.5–203

Chatwin, P. C.
- Dispersion of a puff of passive contamina in the constant stress region, 21.1–491

Chaudhry, Fazal H.
- Turbulent diffusion in a stably stratifi shear layer (*with* **Meroney, R. N.** 21.9–258

Chaumont, M.
- Influences des régimes climatiques France, en Espagne et en Afrique Nord et leurs conséquences hydrolog ques [Influence of climatic regimes France, Spain and North Africa a their hydrological consequences], 21. 309

Chauvet, J., *see* **Chartier, M. M.**, 21.8–796

Chauzy, S.
- Fluctuation du champ électromagnétiq reçu après une propagation transhoriz [Fluctuation of the electromagnetic fie received after a transhorizon propag tion] (*with* **Bardeau, H.** and **Eleft rion, A.**), 21.3–389

Chavdarov, S. S., *see* **Rodionova, V.** 21.11–207

Chávez Guillén, Rubén, *see* **Cruickshan V. C.**, 21.4–506

Chebotarev, A. I.
- Interrelation of river water and und ground water during flood periods (*wi*

Popov, O. V. and **Kudelin, B. I.**), 21.10–712

On the expediency of using combined series of hydrological characteristics for flood computation (*with* **Serpik, B. I.**), 21.9–592

Piatidesiatiletie Gosudarstvennogo gidrologicheskogo instituta [Fiftieth anniversary of the State Hydrological Institute] (*with* **Popov, I. V.**), 21.12–27

hebotarev, R. P.

Kachestvennaia model’ tsirkuliatsii atmosfery po radionabliudeniiam metorov [Qualitative model of atmosphere circulation by radio observations of meteors], 21.8–227

heccacci, P. F.

Direct detection of ionospheric irregularity, 21.5–340

hecha, V. A.

Ionosfernaia stantsiia dlia prostranstvenno-chastotno-raznesennogo priema [Ionospheric station for space-spatial-frequency reception], 21.11–178

hechik, F. Sh.

Agrometeorologicheskie usloviia vymokaniia ozimykh kul’tur v Nechernozemnoĭ zone Evropeĭskoĭ territorii SSSR [Agrometeorological conditions for wetting winter crops in the Non-chernozem zone of European U.S.S.R.], 21.10–416

heek, C. H., *see* **Swinnerton, J. W.**, 21.5–231

hekhonadskaia, V. A., *see* **Cherkasov, P. A.**, 21.2–626

hekushkina, T. A.

O opredeleniiu parametrov elementarnogo gidrografa [Determination of elementary hydrograph parameters], 21.12–668

O vychislenii ezhesutochnykh raskhodov polovod’ia po elementarnym gidrografam s chastnykh basseinov [Calculations of daily highwater discharges from unit hydrographs in individual basins], 21.12–703

Opyt primeneniia EVM “Promin” dlia rascheta vliianiia vodokhranilishcha v basseine reki na maksimal’nye raskhody vody [Experimental application of the electronic digital computer “Promin” for calculating the effect of a river basin reservoir on maximum water discharges], 21.12–669

hemical Engineering [N. Y.]

Telemetering system puts pollution monitoring on line, 21.11–103

Chen, Cheng Lung

Hydrodynamics of mathematically simulated surface runoff (*with* **Chow, V. T.**), 21.10–411

See also **Chow, V. T.**, 21.11–688

Chen, C. S.

Higher order resonances in a magnetoplasma (*with* **Lewak, G. J.**), 21.3–372

Chen, Hsi Shu, *see* **Nagaraja Rao, C. R.**, 21.8–594

Chen, Huoxiong, *see* **Iwagaki, Y.**, 21.12–791

Chen, T. Y.

Severe rainstorms in Hong Kong during June 1966, 21.1–612

Cheng, Roger, *see* **Hogan, A. W.**, 21.12–540

Chepovskaia, O. I.

Gradobitiia 1965 g. v nekotorykh raĭonakh Severnogo Kavkaza [Hail storms in some regions of the Northern Caucasus in 1965], 21.11–416

Cheremukhin, A. M., *see* **Gel’fer, E. I.**, 21.10–573

Cherenkova, E. P., *see* **Vul’fson, N. I.**, 21.11–140

Cherepanov, N. V.

Rol’ termicheskogo rezhima vodoema v formirovanii kristallicheskoĭ struktury l’da [Role of the thermal regime of the water basin in the formation of the crystal structure of ice], 21.2–632

See also **Baranov, G. I.**, 21.4–620

Cherepovitskiĭ, V. A., *see* **Mitiakova, E. E.**, 21.3–39

Cherkas, V. I.

O dlitel’nykh vozmushcheniiakh ionosfery pod vozdeĭstviem vysotnykh termoiadernykh vzryvov [Long term perturbations of the ionosphere under the effect of thermonuclear explosions] [and English transl.], 21.5–341

Fluktuatsii perioda poliarizatsionnykh zamiraniĭ KB signalov ISZ i neodnorodnaia struktura ionosfery [Fluctuations in the period of polarization decay of short wave signals from artificial Earth satellites and the inhomogeneous structure of the ionosphere] (*with* **Bol’shoĭ, A. A.**), 21.7–177

Cherkasov, P. A.

Stok s lednikov i ego rol’ v pitanii rek Tentek i Pgaĭty khrebta Dzhungarskiĭ Alatau [Origin of the Tentek and the Rgaity River basins from the glaciers of the Dzhungar Alatau range] (*with* **Chekhonadskaia, V. A.**), 21.2–626

Cherkesov, L. V.
  O vliianii viakosti na rasprostranenie meustanovivshikhsia dlinnykh voln v basseine peremennoi glubiny [The effect of viscosity on the propagation of long, non-steady state waves in basins with variable depth], 21.11–780

Chernavskaia, M. M.
  Prozrachnost' atmosfery goroda Baku [Transparency of the atmosphere of Baku], 21.5–447

Cherniak, M. M., *see* **Rabinovich, Iu. I.**, 21.9–66R; **Shifrin, K. S.**, 21.9–76R; **Volchok, B. A.**, 21.9–93R

Cherniakova, A. P., *see* **Ukraine. Upravlenie Gidrometeorologicheskoi Sluzhby**, 21.12–779

Chernigovskiĭ, N. T.
  Radiatsionnyĭ rezhim tsentral'noĭ chasti Arkticheskogo basseĭna [Radiational regime of the Central Arctic Basin], 21.2–108

Chernikov, A. A.
  Investigations of the turbulence in convective atmosphere using radar and aircraft (*with others*), 21.10–323
  Issledovanie diagramm obratnogo rasseianiia istochnikov otrazheniĭ ot "iasnogo" neba [Investigation of the graphs of inverse dispersion of reflection sources from a "clear" sky], 21.1–109
  Issledovanie poliarizatsionnykh kharakteristik ekho-signalov ot "iasnogo" neba [Investigation of polarization characteristics of the echo signals from a "clear" sky] (*with* **Shupiatskiĭ, A. B.**), 21.1–1
  Rasseianie radiovoln v oblakakh i uravnenie radiolokatsii oblakov [Dispersion of radio waves in clouds and the equation for radiolocation of clouds], 21.1–583
  See also **Gorelik, A. G.**, 21.1–112; **Kostarev, V. V.**, 21.3–659

Chernogaeva, G. M.
  Pitanie podzemnymi vodami rek Evropy [Underground alimentation of European rivers], 21.12–551
  Vodnye resursy Evropy [Water resources of Europe], 21.7–770

Chernogorov D. V., *see* **Gubanova, S. I.**, 21.1–214

Chernov, V. M.
  Phenomena connected with the turbidity of the Earth's atmosphere, 21.6–676
  Visibility of the Earth's penumbra durin lunar eclipses, 21.11–570

Chernova, V. F.
  Nekotorye osobennosti skhem prognoz baricheskogo polia po polnym uravne niiam gidrodinamiki [Some peculiariti of diagrams of pressure field forecas according to full hydrodynamic equations] (*with* **Luzhnaia, N. P.**), 21.1–21

Chernysheva, S. P., *see* **Ryss, I. K.**, 21.1 208

Cherry, R. D.
  Thorium-228 in marine plankton and se water (*with others*), 21.11–762

Chertok, I. M., *see* **Fomichev, V. V.**, 21.1 596

Chesneau, J.
  Données climatiques de la station Dumo d'Urville [Climatic data for the Dumo d'Urville Station] (*with* **Heuzey, J.**) 21.9–370

Chesters, G., *see* **Wildung, R. E.**, 21.7–658

Chestnaia, I. I., *see* **Il'in, B. M.**, 21.7–22 **Kliuchnikova, L. A.**, 21.6–10

Chesnut, Walter G.
  Low frequency waves and irregularities i the auroral ionosphere as determined b radar measurements, 21.10–157

Chevalier, R. A.
  Excitation of the forbidden coronal line Pt. 1, Fe XIII λλ 10747, 10798 and 338 (*with* **Lambert, D. L.**), 21.10–672
  Excitation of the forbidden coronal line Pt. 2, (Caxv) λλ 5694 and 5446, (*wit* **Lambert, D. L.**), 21.10–673

Chew, Frank
  Some measurements of current by shallo drogues in the Florida current (*wit* **Berberian, George A.**), 21.10–822

Cheyney, B. J.
  Some short-term auroral breakup effect on sporadic E, 21.9–442

Cheyney, Howard, *see* **Hansen, J. E.**, 21.6 362; 21.8–368

Chi, S. W.
  Ground turbulent boundary layer of a stationary tornado-like vortex (*with others*), 21.12–390

Chia, Lin Sien
  Sunshine and solar radiation in Singapore 21.6–353

Chichmar', V. V.
  Observations of noctilucent clouds i Southern Kazakhstan in September 1968, 21.10–483

Chidley, Thomas R. E.
  Generalized computer program for the solution of the Penman equation for evapotranspiration (*with* **Pike, John G.**), 21.10–359
Chigarev, A. M., *see* **Rybin, Iu. N.**, 21.5–43
Chikhachev, A. S., *see* **Tsytovich, V. N.**, 21.11–557
Chikovskii, S. S.
  Nakoplenie snega na uchastke stantsiia Molodezhnaia 200 ĭ kilometr [Snow accumulation in the Molodezhnaia Station Sector—the 200th kilometer] (*with others*), 21.11–397
  Pribrezhnye gidrologicheskie issledovaniia v more deĭvisa v 1965/66 g. [Coastal hydrological investigations in the Davis Sea, 1965/66], 21.8–815
  See also **Botnikov, V. N.**, 21.12–740; **Petrov, I. G.**, 21.8–810
Childs, E. C.
  Introduction to the physical basis of soil water phenomena, 21.8–483
Chile. Inst. de Fomento Pesquero, Santiago de Chile
  Informe del Crucero Norte V realizado en colaboración con la industria pesquera los días 24 y 25 de noviembre de 1968 [Report on the Fifth North Cruise made in collaboration with the fishing industry Nov. 24 and 25, 1968], 21.2–678
Chilton, K. E.
  Transient lunar phenomena, 21.10–600
Chimonas, G.
  Atmospheric gravity waves induced by a solar eclipse (*with* **Hines, C. O.**), 21.6–669
  Generation of traveling ionospheric disturbances by auroral currents, 21.7–178
  Launching of low frequency traveling disturbances by auroral currents, 21.9–152
  Wind-driven instability in the lower E-region, 21.11–180
Chin, P. C.
  Cold surges over South China, 21.4–119
  See also **Bell, G. J.**, 21.2–261
Chindahporn, Rangsit
  Analysis of medium- and high-frequency atmospheric radio noise in Thailand (*with* **Younker, E. Leroy**), 21.10–532
  See also **Hagn, G. H.**, 21.9–454
Ching, B. K., *see* **Thomas, G. E.**, 21.6–457; **Carter, V. L.**, 21.4–36
Chiplonkar, M. W.
  Routine ionospheric study by means of an atmospherics waveform recorder (*with* **Vanjpe, P. S.**), 21.2–68
Chiriac, Vasile
  Activitatea hidrometeorologică şi aportul său în deservirea economiei, în Rupublica Socialistă România [The hydrometeorological activity and its contribution to serving the economy of Rumania], 21.5–642
  Variaţia de lungă durată a precipitaţiilor si temperaturii aerului la Iaşi [Long-time variation in Jassy's precipitation and air-temperature] (*with* **Cires, C.** and **Rădulescu, S.**), 21.3–552
Chirkova, A. A., *see* **Emel'ianov, Iu. N.**, 21.11–406
Chisholm, A. J.
  Observations by 10-cm radar of the hailstorm of 29 June 1967, 21.3–83
Chisholm, John
  Aspects of weather modification experiments in mountainous terrain (*with* **Berry, E.** and **Pranger, M.**), 21.6–151
  See also **Berry, E. X.**, 21.4–17
Chistiakov, A. D.
  Nekotorye osobennosti vetra i temperatury v sloe 0–2 km pri vetrakh u poverkhnosti Zemli 25 m/sec i bolee [Some wind and temperature features in the 0–2-km layer during surface winds of 25 m/sec and greater], 21.12–480
  Raspredelenie po territorii Sovetskogo Soiuza sil'nykh dozhdeĭ za period s 1951 po 1965 g. [Distribution of heavy rains in the Soviet Union during 1951–1965], 21.1–613
  Raspredelenie po territorii Sovetskogo Soiuza sil'nykh snegopadov za period 1951–1965 gg. [Distribution of heavy snowfalls over the Soviet Union during the period 1951–1965] (*with others*), 21.12–544
Chistiakov, D. A., *see* **Krasiuk, N. P.**, 21.3–660
Chistiakov, V. F.
  Observations of the total lunar eclipse of April 24 and October 18, 1967, 21.11–571
Chistiakova, E. A.
  Osobennosti narastaniia tepla vesnoĭ v Vostochnoĭ Sibiri i na Dal'nem Vostoke [Peculiarities of the increase of heat during spring in Eastern Siberia and the Far East], 21.3–553
Chit, Khaing, *see* **Hla, P.**, 21.12–344

Chiu, Wan Cheng
  [Comments on] **William K. Widger, Jr.:** Note on the Wien displacement law and [Reply by] **Widger,** 21.9–213
Chizhov, A. F.
  Izmerenie temperatury molekuliarnogo azota v nizhneĭ termosfere s pomoshch'iu mass-spektrometra omegatron [Measurements of the molecular nitrogen temperature in the lower thermosphere by the mass-spectrometer omegatron], 21.10–314
  See also **Ivanova, I. N.,** 21.6–458; **Tulinov, V. F.,** 21.11–224
Chizhov, A. N., *see* **Karasev, I. F.,** 21.4–518
Chlebarov, St.
  Sympathicus-, Parasympathicus- und Histaminreagibilitaet der Haut waehrend der Hochgebirgsklimabehandlung von Hautkrankheiten [Sympathetic, parasympathetic and histamine responsiveness of the skin during high-altitude climatotherapy of skin diseases], 21.8–536
  See also **Popchristov, P.,** 21.8–556
Choi, Bo Young
  South Korea, 21.11–95R
Chojnowski, Stefan, *see* **Milulski, Z.,** 21.4–597
Chomicz, Kazimierz
  Śnieg i lawiny w Tatrach w roku 1963. [Snow and avalanches in Tatra Mountains, 1963], 21.10–90R
Chorley, Richard J.
  Interaction of precipitation and man (*with* **More, Rosemary J.**), 21.1–267
  Water, Earth, and man: a synthesis of hydrology, geomorphology, and socio-economic geography, 21.1–25
  See also **Barry, R. G.,** 21.5–3
Choronenko, Iwan, *see* **Zdunkowski, W. G.,** 21.6–385
Choudhuri, R.
  Studies of atmospheric electrical potential gradient near the ground at Poona during the IQSY (*with* **Gopinath, S.**), 21.11–502
Chouret, A.
  Application de la méthode de dilution (jaugeages chimiques) sur les rivières de Madagascar [Application of the dilution method (chemical gaging) to the rivers of Madagascar], 21.11–93R
Chow, Shiao Ping, *see* **Chao, J. P.,** 21.1–2
Chow, Tsaihwa, J.
  Lead aerosols in marine atmosphere (*with* **Earl, J. L.** and **Bennett, C. F.**), 21.5–240
Chow, Ven Te
  Mechanics of surface runoff (*with others*), 21.11–688
  See also **Advances in Hydroscience, N. Y.,** 21.4–500; **Chen, C. L.,** 21.10–411; **Yen, B. C.,** 21.10–412
Chowdhury, A. B., *see* **Banerjee, A. K.,** 21.4–114
Chowdhury, S. Roy, *see* **Basu, S.,** 21.3–718
Chrest, S. A., *see* **Skrivanek, R. A.,** 21.10–640
Christiansen, Jerald E.
  Indications of changing relations between precipitation and streamflow with time, 21.8–375
Christiansen, W. H., *see* **Mullaney, G. J.,** 21.7–113
Christides, Orestis
  On the prospects of water use in agriculture, 21.6–683
Christie, A. D.
  Condensation model of noctilucent cloud formation, 21.8–579
  D-region winter anomaly and transport near the mesopause, 21.6–224
  Noctilucent clouds in North America, 21.11–498
  On the use of isentropic trajectories in the study of pollen transports, 21.7–501
  Photographic study of noctilucent clouds (*with* **Kohler, J.**), 21.7–707
Chronic, Halka
  Tropics, 21.5–4
  See also **Newkirk, G., Jr.,** 21.5–37
Chu, Roland T., *see* **Arnason, G.,** 21.5–529
Chu, S. T.
  Determination of cloud cover persistence by a non-Markovian stochastic chain, 21.5–603
Chu, Yun T'i
  Numerical experiment on the processes of topographic perturbations in a baroclinic atmosphere, 21.1–376
Chubb, Donald L.
  Simulation of solar wind–Earth magnetosphere interaction, 21.10–279
Chubukova, A. L.
  K postroeniiu korreliatsionnoĭ matritsy polia vetra dlia sfericheskoĭ Zemli [The construction of correlation matrix of the wind field for a spherical Earth], 21.4–190

Chuchkalova, N. N., *see* **Vasil'ev, A. A.**, 21.9–254

Chuck, Robert T.
Groundwater resources development on tropical islands of volcanic origin, 21.9–622

Chudakov, V. M., *see* **Azimov, S. A.**, 21.2–159

Chukanin, K. I.
Vliianie teplovogo sostoianiia poliarnykh raĭonov na vikhrevuiu deiatel'nost' v atmosfere [The influence of the thermal condition of the polar regions on eddy activity in the atmosphere], 21.4–99

Chukreev, V. K.
Methods of increasing the accuracy of calculation of moisture reserves in soils and soil materials, 21.8–484

Chumbalova, R. A., *see* **Kolomeets, E. V.**, 21.12–435

Chunchuzov, E. P.
Asimptotika sobstvennykh funktsiĭ prilivnogo operatora Laplasa [Asymptotics of the Eigen functions of the Laplace tidal equation] [and English transl.], 21.4–763

Chung, Y.
Temperature data from the Pacific abyssal water (*with others*), 21.8–816

Chuprin, S. F.
Termicheskaia transformatsiia vozdushnoĭ massy, postupaiushcheĭ na Evropeĭskuiu territoriiu SSSR iz severnykh raĭonov Afriki [Thermal transformation of an air mass entering the European U.S.S.R. from northern Africa], 21.1–415
See also **Bel'skaia, N. N.**, 21.12–376

Chuprina, V. I., *see* **Makhover, Z. M.**, 21.2–60

Churaev, N. V.
Water evaporation from capillaries, 21.11–365

Church H. W.
Automated meteorological measurement system, 21.1–162
See also **Luna, R. E.**, 21.10–329

Churchill, Milo A.
Effects of streamflow regulation on water quality: the TVA experience, 21.10–743

Chuter, I. H.
Snowstorm misses the Lowlands, 21.8–434

Chutkina, L. P., *see* **Vartazarov, S. Ia.**, 21.7–640

Cialdea, R.
Sondaggio ottico nei bassi strati della troposfera [Optical sounding of the lower layer of troposphere] (*with* **Fea, M.**), 21.4–363

Cicala, Aldo, *see* **Fea, G.**, 21.8–471

Cicconi, Giuseppe, *see* **Bossolasco, M.**, 21.2–268

Cicirelli, Frank S., *see* **Friedman, H. A.**, 21.9–42

Cioc, Dumitru
O metoda de calcul al miscarii nepermanente in albiile riurilor [Method for the calculation of the non-permanent movements in the river beds] (*with others*), 21.12–709

Ciocoiu, I., *see* **Andrițoiu, N.**, 21.3–491; 21.5–436

Ciovica, Nicolae, *see* **Pătăchie, Iu.**, 21.7–693

Cireș, C., *see* **Chiriac, V.**, 21.3–552

Cisler, J., *see* **Groenevelt, P. H.**, 21.1–652

Ciszewski, Ryszard, *see* **Mikulski, Z.**, 21.5–645

Citrograph [Los Angeles]
Post-holiday freeze: a problem for graders, 21.10–313
Reviewing the winter, 1968–69, San Bernadino-Riverside area, 21.3–115

Cladis, J. B.
Redistribution of trapped 55-Mev protons by Starfish nuclear explosion, 21.11–290

Claerbout, Jon F.
Components as nonunique functions of total magnetic field, 21.4–429
Electromagnetic effects of atmospheric gravity waves (*with* **Madden, T. R.**), 21.7–510
See also **Madden, T. R.**, 21.5–522

Claiborne, Robert
Climate, man and history, 21.10–440

Clancy, B. E.
Chandrasekhar's X- and Y-functions for isotropic scattering in thick slabs, 21.6–374

Clare, Herbert C.
Water quality and man's environment, 21.2–551

Clark, A. E.
New Zealand, 21.11–95R

Clark, D. D.
Measurement of temperature in the upper atmosphere, 21.7–21
Report presented to the 11th COSPAR meeting, Tokyo, Japan, May 1968 (*with others*), 21.4–18

Clark, David C., *see* **McNeal, R. J.**, 21.11–534

Clark, I. D.
Photoionization cross section of O_2 ($^1\Delta g$) at wavelengths between 1035 and 1118 Å (*with* **Wayne, R. P.**), 21.10–158

Clark, James R.
Techniques for the objective assembly of meteorological satellite data (*with* **Nagle, R. E.**), 21.5–92
See also **Tilden, C. E.**, 21.5–27

Clark, John H., *see* **Craig, R. A.**, 21.12–284

Clark, John M., *see* **Nelson, M. W.**, 21.10–435

Clarke, Frank E.
Evaluation and control of corrosion and encrustation in tube wells of the Indus Plains, West Pakistan (*with* **Barnes, I.**), 21.3–709
See also **Barnes, I.**, 21.4–552

Clarke, Garry K. C.
Geophysical measurements on the Kaskawulsh and Hubbard Glaciers, 21.7–823

Clarke, John F.
Meteorological analysis of carbon dioxide concentrations measured at a rural location, 21.5–241
Nocturnal urban layer over Cincinnati, Ohio, 21.11–482

Clarke, P. C.
Snowfalls over south-east England, 1954, 21.8–432

Clarke, R. A.
Oceanic flow over varying bottom topography (*with* **Fofonoff, N. P.**), 21.2–736

Clarke, W. B.
Excess ^{3}He in the sea (*with* **Beg, M. A.** and **Craig, H.**), 21.2–724

Clauss, Johannes
Kinematische Studie an einer nahezu adiabatisch-quasistationar driftenden Zyklone [Kinematic study of a nearly adiabatic-quasistationary drifting cyclone], 21.12–378

Clavelier, B.
Some results on solar activity at 408 MHz, 21.2–422
See also **Boischot, A.**, 21.2–421

Clawson, Marion
Desalted seawater for agriculture (*with* **Landsberg, H. T.** and **Alexander, L. T.**), 21.6–840

Clay, C. S.
Propagation loss predictions for ocean test ranges (*with* **Tatro, P. R.** and **Wolff, P. M.**), 21.2–704

Clayton, William H.
Evaluation of atmospheric transport and diffusion (*with* **Sanford, T. E.** and **Ackerman, B.**), 21.6–7
Simulation research to develop objective meteorological prediction capability (*with* **Sanford, T. E.**), 21.6–8; 21.7–84

Clean Air Yearbook, London
1969/1970, 21.9–114R

Clegg, P. E.
Millimetre and submillimetre astronomy (*with* **Newstead, R. A.** and **Bastin, J. A.**), 21.8–727

Clem, LeRoy H.
Applicability of National Data Buoy Systems to refined national requirements for marine meteorological and oceanographic data (*with* **Northrop, Gaylord M.**), 21.10–19

Clemesha, B. R.
Laser radar above 30 kilometers, 21.6–20

Clerc, F.
Étude de materiels pour le contrôle d'un bassin [River basin control instrumentation], 21.7–775

Clerfayt, A.
Water problem in developing countries, 21.7–787

Cline, Joel D.
Oxygenation of hydrogen sulfide in seawater at constant salinity, temperature and pH (*with* **Richards, F. A.**), 21.5–790
Spectrophotometric determination of hydrogen sulfide in natural waters, 21.2–718
See also **Broenkow, W. W.**, 21.2–722

Clodman, J.
Design and benefits of an automatic picture transmission (APT) network, 21.1–149

Clodman, Stephen
More general process to filter out high frequency oscillations from hydrodynamic equations, 21.3–410

Closs, R. L.
Low latitude sporadic-E associated with geomagnetic activity, 21.9–153
Redistribution of ionization by the meridional currents associated with the equatorial electrojet, 21.12–293

Cloud, Preston, Jr.
Primitive Earth, 21.4–471

Cloutier, P. A., *see* **Dessler, A. J.**, 21.3–384

lyma, Wayne
Program of basic data collection for groundwater resources in developing countries (*with* **Shaw, R. J.**), 21.9–574
oachman, L. K.
Baffin Bay "North Water" Project, 1967 and 1968 (*with* **Nutt, D. C.**), 21.6–831
Physical oceanography in the Arctic Ocean, 1968, 21.7–828
oantic, Michel
Interactions atmosphère–oceans, Pte. 2, Pte. 3 [Atmosphere–ocean interactions, Pt. 2, Pt. 3], 21.2–770
Turbulent fluctuations of humidity and their measurement (*with* **Leducq, D.**), 21.11–95
oastal Plains Regional Comm., *see* **North Carolina. Univ. Office of Marine Sciences**, 21.2–651
obb, Geraldine F., *see* **Roberts, C. F.**, 21.4–26
obb, William E.
Electrical conductivity of oceanic air and its correlation to global atmospheric pollution (*with* **Wells, H. J.**), 21.11–506
ochemé, J.
Agricultural meteorology, 21.11–5
Contribution to the forecasting of the early rains at Nairobi (*with* **Zazzara, G.**), 21.5–190
FAO/UNESCO/WMO agroclimatology survey of a semiarid area in West Africa south of the Sahara, 21.2–316
ochrane, J.
Relationship between minimum air temperatures and duration of frost in late spring, 21.8–319
ochrane, John D.
Current and waters of the eastern Gulf of Mexico and western Caribbean, of the western tropical Atlantic Ocean, and the eastern tropical Pacific Ocean, 21.2–679
öntürk, Huseyin
Estimation of the water balance of lakes region (*with* **Bayar, Oğuz**), 21.1–770
Mean discharge as an index to mean maximum discharge, 21.10–704
oetzee, J. A.
Palaeoecology of Africa and of the surrounding islands and Antarctica, Vol. 3, Pollen analytical studies in East and Southern Africa, 21.1–23
offey, Helen E.
Sunspot motion statistics for 1965–67 (*with* **Gilman, Peter A.**), 21.8–764

Cogger, L. L.
Observations of a magnetic conjugate effect in the OI 6300 Å airglow at Saskatoon (*with* **Shepherd, G. G.**), 21.6–386
Cohen, A., *see* **Lomas, J.**, 21.5–482
Cohen, Ariel
Experimental determination of the depolarization of scattered laser light by atmospheric air (*with* **Neumann, J.** and **Low, W.**), 21.7–710
Cohen, Marshall H.
High-resolution observations of radio sources, 21.4–466
Colacino, M.
Inquinamento atmosferico: misure di nuclei di condensazione, Roma, settembre–dicembre 1968 [Air pollution: condensation nuclei measurements, Rome, September–December, 1968] (*with* **Franco, R.** and **Vivona, F. M.**), 21.7–138
Misura della temperatura superficiale del mare a mezzo di radiometro (PRT-5): influenza dell'angolo di inclinazione [Sea surface temperature measurements by infrared radiometer (PRT-5): influence of the view angle] (*with* **Rossi, E.** and **Vivona, F. M.**), 21.10–316
Misura della temperatura superficiale del mar Ligure mediante radiometro infrarosso (PRT-5) [Ligurian sea surface temperature measurements with infrared radiometer (PRT-5)], 21.8–850
Misura della temperatura superficiale del mare mediante radiometro infrarosso (PRT-5) [Sea surface temperature measurements by infrared radiometer (PRT-5)] (*with* **Rossi, E.**), 21.7–848
Taratura del Prt-5 e misura preliminari con lo strumento [PRT-5 calibration and preliminary tests with the instrument], 21.8–54
See also **Girogi, M.**, 21.2–7
Colburn, D. S., *see* **Wilcox, J. M.**, 21.11–658
Cole, J. D.
Acoustic–gravity waves from an energy source at the ground in an isothermal atmosphere (*with* **Greifinger, C.**), 21.3–578
Acoustic–gravity waves produced by energy release (*with* **Greifinger, C.**), 21.8–658
Cole, K. D.
Electrical conductivity in the Earth's bow shock, 21.8–262

Theory of electric currents in ionospheric E-layers, 21.8–170

Coleman, James M.
Transiting coastal river channels (*with* **McIntire, W. G.**), 21.9–652

Coleman, Paul J., Jr., *see* **Rosenberg, R. L.,** 21.4–431; **Siscoe, G. L.,** 21.6–416

Colin, L.
Model studies of kinked Z trace in topside ionograms (*with* **Chan, K. L.**), 21.10–159
Temperature and ion abundance profiles deduced from simultaneous Explorer XXXI and Alouette II data (*with* **Dufour, S. W.** and **Willoughby, D. S.**), 21.10–160

Colgate, Stirling A.
Electrostatic sound in clouds and lightning (*with* **McKee, C.**), 21.7–726

Collias, Eugene E.
Preliminary report R/V *Thomas G. Thompson* Cruise 30, 21.2–680

Collingbourne, R. H.
Kew: the national radiation centre, 21.4–125

Collins, B. G.
Radiation recording system (*with* **Patterson, G.**), 21.3–177
See also **Blevin, W. R.,** 21.10–74

Collins, C. A.
Direct current measurements in the frontal zone of a coastal upwelling region, 21.1–741
Ocean currents above the continental shelf off Oregon as measured with a single array of current meters (*with* **Pattullo, June G.**), 21.10–818

Collins, Dave G.
Comparison of atmospheric path radiance calculations for model clear and hazy atmospheres (*with* **Wells, M. B.**), 21.7–326
See also **Wells, M. B.,** 21.2–6

Collins, John R.
Automated data processing at the United States Air Force Environmental Technical Applications Center, 21.9–13

Collis, R. T. H.
Lidar, 21.2–10
Lidar and [Comments by] E. W. Barrett, 21.6–41
Lidar for routine meteorological observations, 21.5–57

Collison, P., *see* **Murray, R.,** 21.1–393

Colloquium on Internal Gravity and Acoustic Waves, Boulder, Colo., June 17–June 26, 1968
Internal gravity and acoustic waves, 21.6–274

Colloquium on Spectra of Meteorological Variables, Stockholm, June 9–19, 196
Proceedings of the Colloquium, 21.10–134

Colombia. Dirección de Planeamiento
Boletín informativo, 1967, 21.10–120R

Colorado. State Univ., Fort Collins. Dept of Atmospheric Science
Challenge of the atmosphere, 21.1–61
Comments on the Northeast Brazil Project by the 1969 class in "The Atmosphere and the Water Cycle," 21.1–602
See also **Dirks, R. A.,** 21.3–483

Colville, J. S., *see* **Holmes, J. W.,** 21.10–353, 354

Comer, C. M., *see* **Hall, M. P. M.,** 21.10–209; **Hendrick, R. L.,** 21.12–100

Comes, V.
Cercetări privind variația excreției de acid ascorbic în perioada de primăvară la oameni [Research on springtime variation in ascorbic acid elimination in humans] (*with others*), 21.4–340

Comly, Jack, *see* **Laussade, J. P.,** 21.4–365

Commins, B. T.
Formation of polycyclic aromatic hydrocarbons during pyrolysis and combustion of hydrocarbons, 21.6–172

Commoner, Barry
Crisis in the environment, 21.9–123
Evaluating the biosphere, 21.5–242

Commonwealth Scientific and Industrial Research Org., *see* **Symposium on Land Evaluation, Canberra, 1968,** 21.1–34

Conaway, J., *see* **Nordberg, W.,** 21.2–385

Conference on Environmental Effects on Antenna Performance, Boulder, Colo., July 14–18, 1969
Proceedings, Vol. 1, 21.5–686

Conference on Plan for U. S. Participation in the Global Atmospheric Research Program, Boulder, Colo., Oct. 15–17, 1969
Summary of Conference, 21.10–16

Conference on Planetary Atmospheres, 3rd, Tuscon, Ariz., April 30–May 2, 1969
Papers, 21.5–701

Conference on the Technology of the Sea and the Sea-Bed, Harwell, England, April 1967
Proceedings of the Conference, 21.7–829

Conference on Tropospheric Wave Propagation, London, Sept. 30–Oct. 2, 1968
Proceedings, 1968, 21.9–135
Congo (République). [Government] [Democratic Republic of the Congo]
International Conference on Water for Peace, Wash., D. C., May 23–31, 1967, 21.11–95R
Météo Congo: Bulletin de données climatologiques, 1959 [Meteo Congo: Bulletin of climatological data, 1959], 21.9–36
Conklin, E. K.
Velocity of the Earth with respect to the cosmic background radiation, 21.2–404
Conner, T. Robert
Stroke- and space-resolved slit spectra of lightning, 21.2–360
onnes, J., *see* **Kaplan, L. D.**, 21.10–615
onnes, P., *see* **Kaplan, L. D.**, 21.10–615
onomos, T. John
Mixing of Columbia River and ocean waters in summer (*with* **Gross, M. Grant**), 21.1–755
onover, John H.
Major cloud systems (*with* **Lanterman, W. S.** and **Schaefer, V. J.**), 21.8–364
New observations of anomalous cloud lines, 21.4–274
onrath, B., *see* **Hanel R.**, 21.8–241
onrath, Barney J.
On the estimation of relative humidity profiles from medium resolution infrared spectra obtained from a satellite, 21.2–238; 21.3–75
onsortini, A., *see* **Carrara, N.**, 21.11–600
onstantinescu, Gheorghe P.
Din experienţa captărilor de ape subterane [The experience of underground water catchments] (*with* **Nimereală, I.**), 21.4–537
Studiile hidrogeologice pentru alimentarea cu apă potabilă a orasului Craiova [Hydrogeological studies on the drinking water supply of Craiova], 21.10–722
See also **Protopopescu-Pache, E. I.**, 21.1–784
ook, A. F.
Physical theory of meteors, 21.4–487
See also **Franklin, F. A.**, 21.12–610
ook, Ann K.
Barbados story, 21.5–5
Breakthrough team, 21.1–150
Fifteenth of May, 21.3–296
21 days to nowhere, 21.10–55
Cook, Charles W.
AFGWC meteorological display techniques, 21.9–31
Cook, G. E.
Semi-annual variation in air density at a height of 1100 km from 1964 to 1967 (*with* **Scott, D. W.**), 21.12–205
Semi-annual variation in density at a height of 90 km, 21.2–50
Semi-annual variation in the upper atmosphere: a review, 21.12–204
Variations in exospheric density during 1967–68, as revealed by Echo-2, 21.12–315
Cook, Gerald S., *see* **Shonting, D. H.**, 21.11–769
Cook, R. Elton
Patterns of backwater and discharge on small ice-affected streams (*with* **Cerny, Edwin E.**), 21.10–748
Cook, Richard K.
Atmospheric sound propagation, 21.10–549
Subsonic atmospheric oscillations, 21.4–387
Cooke, Lowell Thomas
Study of nocturnal thunderstorms and their relation to jet stream intersections, 21.4–115
Cooley, Duane S.
Layered cloud analyses derived from satellite and conventional data (*with* **Ball, J. T.** and **Pavlowitz, A. M.**), 21.6–130
Test plan for implementation for multistation boundary layer model system, 21.2–41
Cooley, M. E.
Regional hydrogeology of the Navajo and Hopi Indian Reservations, Arizona, New Mexico, and Utah (*with others*), 21.4–538
See also **O'Bryan, D.**, 21.2–305
Cooney, John
Remote measurements of atmospheric water vapor profiles using the Raman component of laser backscatter, 21.6–31
Coons, Frank G., Jr., *see* **Appleman, H. S.**, 21.11–136
Cooper, Charles F.
Ecological effects of silver iodide and other weather modification agents: a review (*with* **Jolly, W. C.**), 21.11–133
Ecological effects of weather modification (*with* **Jolly, W. C.**), 21.4–32
Cooper, Hilton H., Jr.
Response of well-aquifer systems to seismic waves, 21.12–690
See also **Pinder, G. F.**, 21.4–563

Cooper, L. H. N.
Extraction of oceanographical time-series from the four-dimensional "liquidum" or continuum, 21.10–791
Cooper, P. I.
Digital simulation of transient solar still processes, 21.1–423
Cooper, Roger E.
SRL meteorological program and off-site dose calculations (*with* **Rusche, Benard C.**), 21.10–212
Corbet, Philip S.
Terrestrial microclimate, 21.6–426
Corby, G. A.
Atmosphere on the move, 21.12–365
Corcos, G. M., *see* **Scotti, R. S.**, 21.10–233
Cordeiro, Newton Velloso
Brazil (*with* **Soares, Pedro José Serre Ribeiro**), 21.11–95R
Cordova, R. M.
Selected hydrologic data southern Utah and Goshen Valleys, Utah, 21.9–576
Corfield, G. A., *see* **Nicholls, J. M.**, 21.8–82
Corkrum, Richard C., *see* **Hamilton, G. D.**, 21.1–745
Corn, M., *see* **O'Donnell, H.**, 21.12–111; **Stein, F.**, 21.5–288
Cornen, C., *see* **Morel, P.**, 21.6–312
Cornett, John S.
Study of wind variability in the lower troposphere through power spectrum analysis at mesoscale frequencies, 21.1–506
Corovillano, R. L.
Corotating structure in the solar wind (*with* **Siscoe, G. L.**), 21.6–402
Corrales, Manuel F.
Costa Rica, 21.11–95R
Corrin, M. L., *see* **Gravenhorst, G.**, 21.12–192
Cortecci, G.
Isotopic composition of sulfate in rain water, Pisa, Italy (*with* **Longinelli, A.**), 21.10–383
Corwin, James F.
Volatile oxygen-containing organic compounds in sea water, 21.4–689
Coste, Bernard
Echanges de sels nutritifs dissous entre la mer Mediterranée et l'océan Atlantique [Exchange of dissolved nutritive salts between the Mediterranean Sea and the Atlantic Ocean], 21.10–807
Costello, David F.
Prairie world, 21.8–537
Costonis, A. C.
Ozone injury to *Pinus Strobus* (*wit* **Sinclair, W. A.**), 21.7–131
Cotecchia, Vincenzo
Planning of the hydrogeological researche on the brackish underground water c Puglia (Southern Italy), 21.9–636
Cotten, G. F., *see* **Angell, J. K.**, 21.11–260
Cotton, R. F.
Calibration and adjustment of hair hydr graphs, 21.11–96
Droplet psychrometer for measurement aerial environment, 21.6–84
Cotton, W. R., *see* **Lavoie, R. L.**, 21.11–48
Cottony, H. V., *see* **Kilpatrick, E. L** 21.11–546
Cottrell, William B.
Compilation of national and internationa nuclear standards (excluding U. S. ac tivities), 21.8–687
Compilation of United States nuclea standards, 21.5–360
Coulman, C. E.
Quantitative treatment of solar 'seeing Pt. 1, 21.2–453
Coulson, Kinsell L.
Measurements of ultraviolet radiation i a pollution atmosphere, 21.12–414
Coulter, J. D.
Climate of Molesworth, 21.9–368
Counihan, J.
Improved method of simulating an atmo spheric boundary layer in a wind tunne 21.1–483
Countryman, Kenneth A.
Explanation of supercooled waters in th Ross Sea, 21.12–771
Some summer oceanographic features c the Norwegian Sea, summer 1963, 21.6 832
Court, Arnold
Eclectric climatology (ed.), 21.2–283
Improbable pressure extreme: 1070 m and [Comment by] **James H. S. Brad ley**, 21.3–581
Mathematical wind profiles, Pts. 1, 2, 3, (*with* **Reed, R. R.** and **Abrahms, G E.**), 21.4–224
Courtier, G. M.
Modulation of auroral electrons near th equatorial plane (*with* **Bryant, D. A** and **Johnstone, A. D.**), 21.10–504
Courtright, C. L., *see* **Senn, H. V.**, 21.11 269

Cousins, Norman
New York's fight against pollution, 21.11–158
Covington, Arthur E.
Algonquin Radio Observatory Lake Traverse, Ont., Canada, 21.8–716
Solar radio emission at 10.7 cm, 1947–1968, 21.4–441
Cowan, I. R.
Mass, heat and momentum exchange between stands of plants and their atmospheric environment, 21.1–50
Plant factors influencing the water status of plant tissues (*with* **Milthorpe, F. L.**), 21.3–700
Cowell, Gawin W., *see* **Pitts, J. N., Jr.**, 21.4–23
Cowley, Ann D., *see* **Haurwitz, B.**, 21.11–332
Cox, Donald C.
Review of techniques in transhorizon propagation research and their relationship to parameters of the troposphere, 21.4–46
Review of transhorizon propagation as a possible tool for remote probing of the atmosphere, 21.6–35
Cox, James L.
Satellite analysis of twin tropical cyclones in the western Pacific (*with* **Jager, G.**), 21.6–339
Cox, L. C., *see* **Megaw, W. J.**, 21.12–502
Cox, L. P., *see* **Evans, J. V.**, 21.7–180
Cox, Michael D.
Mathematical model for the Indian Ocean, 21.12–754
Cox, Stephen K.
Observational evidence of anomalous infrared cooling in a clear tropical atmosphere, 21.7–345
Radiation models of midlatitude synoptic features, 21.3–494
Crabbe, Marcel
Coups de vent et périodes de vent fort au sol au Congo [Wind gusts and periods of strong surface winds in the Congo], 21.6–495
Craddock, J. M.
Statistics in the computer age, 21.7–1
Craft, H., *see* **Gulkis, S.**, 21.5–694
Crafts, A. S.
Water deficits and physiological processes, 21.5–546
Crafts, Edward C.
Will pollution win the public lands?, 21.8–135
Crahay, A.
Water problem in Belgium, 21.7–788
Craig, Alan K.
Marine desert ecology of southern Peru, 21.2–311
Craig, H.
Abyssal carbon and radiocarbon in the Pacific, 21.9–695
Abyssal carbon 13 in the South Pacific, 21.9–705
Oxygen-18 variations in atmospheric carbon dioxide: the HASL data (*with* **Begemann, F.**), 21.12–323
Craig, Harmon, *see* **Clarke, W. B.**, 21.2–724
Craig, Richard A.
Stratospheric ozone and circulation (*with* **Clark, J. H.**), 21.12–284
Cram, D. L., *see* **Andrews, W. R. H.**, 21.6–843
Cram, J. S.
Water: Canadian needs and resources, 21.2–512
Cramer, Owen P.
Disposal of logging residues without damage to air quality, 21.1–288
Crawford, A. B.
Sea surface temperature charts, 21.4–741
Recommendations in connection with sea surface temperature measurements, 21.12–26
Crawford, Bruce W., *see* **Friedman, J. P.**, 21.8–659
Craxford, S. R.
Pollution atmosphérique en Grande-Bretagne (*with* **Weatherley, L. P. M.**), 21.7–139
Creager, Joe S., *see* **Sternberg, Richard W.**, 21.10–838
Creasi, Vincent J.
Selected annotated bibliography of environmental studies of Iraq, Jordan, Lebanon, and Syria (1960–1969) (*with* **Boyer, Dennis L.** and **Smith, Alvin L., Jr.**), 21.10–64R
Selected annotated bibliography of environmental studies of Israel (1960–1969) (*with* **Boyer, Dennis L.** and **Smith, Alvin L., Jr.**), 21.10–65R
Selected bibliography of the climate of the Central American countries, 21.4–311
Creitz, N. R., *see* **Holtan, H. N.**, 21.10–699
Crepon, Michel
Hydrodynamique marine en régime impulsionnel Pte. 2, Etude de quelques solutions particulières dans l'hypothèse des ondes longues avec profondeur constante

[Marine hydrodynamic impulse regime, Pt. 2, Study of those particular solutions in the hypothesis of long waves with constant depth, 21.1–748

Cressman, George P.
Killer storms, 21.7–283
Weather Bureau: today and tomorrow, 21.1–62

Creţeanu, Vania
Asupra posibilităţilor unui radar meteorologic la măsurarea intensităţii precipitaţiilor [The feasibility of a meteorological radar for rainfall intensity measurement], 21.4–280

Cristea, N., *see* **Patrichi, F.,** 21.4–205

Cristodor, E.
Regimul vîntului deasupra teritoriului Republicii Socialiste România [Wind pattern over the Socialist Republic of Rumania] (*with others*), 21.4–213

Croft, Thomas A.
[Discussion of] **V. Agy:** Doppler shifts on high-frequency ground backscatter, 21.2–407

Croke, E. J., *see* **Roberts, J. J.,** 21.9–196

Croom, D. J.
Outstanding solar radio burst at 4.2 mm (*with* **Powell, R. J.**), 21.2–423

Crosby, F. L.
Weather data analyses of the University of Georgia, College of Agriculture Experiment Stations, 21.11–454

Crosby, P., *see* **Lloyd, D. T.,** 21.11–104

Cross, J. D.
Study of the surface of ice with a scanning electron microscope, 21.6–802

Cross, M. J., *see* **Johns, B.,** 21.1–753

Crossley, A. F.
Intercorrelation of temperature and wind, London-New York, at 50 mb, 21.12–454

Crow, F. R.
Evaporation and its suppression by chemical films at Lake Hefner, 21.9–277

Crozaz, G.
Fission products in Antarctic snow, an additional reference level in January 1965, 21.2–621

Cruikshank, D. P., *see* **Moroz, V. I.,** 21.7–761

Cruickshank, V. Carlos
Modelo matemático "DAS" para el estudio del comporamiento de acuíferos ["DAS" mathematical model to study the behavior of aquifers], (*with* **Chávez Guillén, R.**), 21.4–506

Crutcher, Harold L.
Automatic data handling and processing for climatological purposes, 21.9–14
Markov chain techniques for predicting the maximum wind in the maximum dynamic pressure region for launching space vehicles (*with* **Guttman, Nathaniel B.**), 21.1–237
Note on climatology of Thailand and Southeast Asia (*with* **Nash, S. B.** and **Kropp, D. K.**), 21.4–312
Temperature and humidity in the troposphere, 21.8–325
Uses of some statistics in meteorology and climatology, 21.11–81R

Crutchfield, James A.
Economic analysis in water and air quality management, 21.1–289

Crutzen, Paul J.
Determination of parameters appearing in the "dry" and the "wet" photochemical theories for ozone in the stratosphere, 21.5–323
Determination of parameters appearing in the oxygen–hydrogen atmosphere, 21.7–165

Csanady, G. T.
Atmospheric diffusion over irregular terrain, 21.1–367
Coastal Jet Project (*with* **Pade, B. H. G.**), 21.2–619

Csoma, J.
Estimate of discharge probabilities, 21.9–593

Cudbird, B. S. V., *see* **Harley, W. S.,** 21.11–55

Culberson, Charles
Near-bottom water sampler (*with* **Pytkowicz, R. M.**), 21.10–796
Seawater alkalinity determination by the pH method (*with* **Pytkowicz, R. M.** and **Hawley, J. E.**), 21.10–801

Culbertson, J. K., *see* **Gonzalez, D. D.,** 21.12–710

Culhane, J. L.
Study of the solar soft X-ray spectrum (*with others*), 21.8–263

Culkowski, Walter M.
Ecology-oriented tememetering system, 21.1–193

Cuming, M. J.
Effect of cool season topical disturbances in the South China Sea on the weather of Hong Kong, 21.4–95

mme, G. A.

omparison of A3-absorption measurements at 1.f and rocket measured D-region profiles (*with* **Lauter, E. A.**), 21.10–161

mmings, R. L.

eteorological decision making and Bayesian Analysis, 21.1–63

mmings, William C.

ides, the longest waves in the ocean, 21.2–794

nningham, G. L.

cological significance of seasonal leaf variability in a desert shrub (*with* **Strain, B. R.**), 21.10–458

nnington, G. R.

alorimetric measurements of solar and broadband spectral absorptance during ultraviolet exposure testing in vacuum (*with* **Grammer, J. R.** and **Smith, F. J.**), 21.2–122

perman, S.

on cyclotron resonant instability of RH waves propagating at an angle to the interplanetary magnetic field (*with* **Landau, R. W.**), 21.8–264

ka, Š.

eobachtung des fallouts im baugebiet eines kernkaft-werkes in den Jahren 1962–1966 [Fallout observations on the construction sides of a nuclear power plant between 1962 and 1966] (*with* **Carach, J.** and **Petrášová, M.**), 21.1–347

agriaznennost' nektorykh ob"ektov vneshneĭ sredy v Zapadnoĭ Slovakii [Contamination of certain objects of the environment with Sr^{90} and Cs^{137} in western Slovakia] (*with* **Petrášova, M.** and **Carach, J.**) [and English transl.], 21.3–403

rran, Robert J., *see* **Fernald, F. G.**, 1.8–590

rrie, D. B., *see* **Lawford, R. G.**, 21.1–635

rry, M. J., *see* **Murty, R. C.**, 21.5–497

rtis, S. B.

tudy of radiation hazards to man on extended near-Earth missions (*with* **Doherty, W. R.** and **Wilkinson, M. C.**), 21.8–265

rtis, William R.

ulf Stream thermal gradients from satellite, ship, and aircraft observations (*with* **Krishna Rao, P.**), 21.6–846

shing, E. M., *see* **Boswell, E. H.**, 21.5–54

zzi, J. N., *see* **Ingersoll, A. P.**, 21.6–711

Czelnai, Rudolf

A magyar meteorológiai szolgálat 100 éve [100 years of the Hungarian meteorological service], 21.12–23R

Területi átlagértékek becslésének pontosságáról [Accuracy of estimated areal averages], 21.10–25

Czepa, Otto

Bericht über Messungen von Seegang und Seegangswirkungen an der Ostseeküste [Report on swell and swell activity measurements on the Baltic coast] (*with* **Hartke, H.** and **Hoeg, S.**), 21.4–753

Elektronische Bausteine für Geräte zur Seegangsanalyse [Electronic principles for swell analysis devices], 21.7–837

Czeppe, Zdislaw

Einige geomorphologische Prozesse in der Auftauschicht auf Spitzbergen [Some geomorphological processes in the melting layer in Spitzbergen], 21.4–338

Czernuszenko, Wodzimierz, *see* **Zielinska, M.**, 21.11–734

D

Dabberdt, Walter F.

Selective climatology of Plateau Station, Antarctica, 21.12–559

See also **Lettau, H. H.**, 21.12–358

Dachs, J.

Die Helligkeiten des nächtlichen Luftleuchtens während des Sonnenflackenminimums nach Messungen in Südwestafrika, I [Nightglow intensities during the period of sunspot minimum according to measurements in Southwest Africa, Pt. 1], 21.6–387

Die Helligkeiten des nächtlichen Luftleuchtens während des Sonnenfleckenminimums nach Messungen in Südwestafrika, II [Nightglow intensities during sunspot minimum according to measurements made in Southwest Africa, Pt. 2], 21.3–518

On nightglow intensity variations connected with vertical movements in the upper atmosphere, 21.6–388

Da Costa, José A.

International Hydrological Decade: a Progress Report (January 1965–May 1966), 21.9–569

Dadali, Iu. A.

O kharaktere rasseianiia oslableniia mikroradiovoln v osadkakh [The character of scattering and attenuation of radio mi-

crowaves in precipitation] (*with* **Mal'bakhova, N. M.**), 21.11–40
O vozmozhnosti distantsionnogo izmereniia mikrostruktury osadkov [The possibility of remote measurement of the microstructure of precipitation], 21.11–41
See also **Sulakvelidze, G. K.**, 21.1–610

Dagg, M.
Hydrological implications of grass roots studies at a site in East Africa, 21.8–485
Hydrological implications of grass roots studies at Muguga, 21.9–353
Study of the water use of tea at the Tea Research Institute of East Africa using a hydraulic lysimeter (*with* **Othieno, C. O.**), 21.9–354

Dagkesamanskaia, I. M.
K teorii solnechnogo vetra [Theory of the solar wind] (*with* **Koniukov, M. V.**), 21.6–404
Sil'nye fluktuatsii intensivnosti pri rasprostranenii voln v statisticheski odnorodynkh i izotropnykh sredakh [Strong intensity in wave propagation in a statistically homogeneous and isotropic media] (*with* **Shishov, V. I.**), 21.10–569

Dagnino, Ignazio, *see* **Bossolasco, M.**, 21.7–306, –720

Dahl, Odd
Capability of the Aanderaa recording and telemetering instrument, 21.10–798

Dahme, A.
MILOC 65: a multi-ship oceanographic survey in the eastern North Atlantic, Vol. 3, 21.2–663

Daien, Moises
Sistema gráfico para pronosticar la zona de rompiente de olas [Graphic system for forecasting the zone of breakers], 21.10–835

Daĭgot, L. S.
Teplovoĭ balans podstilaiushcheĭ poverkhnosti Ukrainy pri razlichnykh tipakh pogody [Thermal balance underlying the surface of the Ukraine in different types of weather] (*with* **Sakali, L. I.**), 21.2–204

Dainty, J.
Fundamentals of water movement, 21.4–513

Daley, M. J., *see* **Renard, R. J.**, 21.11–112

Dalgarno, A.
Electron impact excitation of the dayglow (*with* **McElroy, M. B.** and **Stewart, A. I.**), 21.1–446
Infrared day and night airglow of t
Earth's upper atmosphere, 21.7–329
Photodissociation of molecular hydrogen
Venus (*with* **Allison, A. C.**), 21.9–4
Rotation–vibration quadrupole matrix e
ments and quadrupole absorption coe
cients of the ground electronic states
H_2, HD and D_2 (*with* **Allison, A.**
and **Browne, J. C.**), 21.5–703
See also **Lane, N. F.**, 21.1–331

Dall'Aglio, Mario
Distribution and circulation of the ma
elements and of some trace elements
surface waters of Italy, 21.2–531

Dalu, Giuseppe
Studio su alcune caratteristiche fisic
dell'aria in un ambiente condizion
[Investigations of some physical prop
ties of the atmosphere in an air-con
tioned environment], 21.8–136
Studio su alcune modifiche dell'ar
dovute all'azione di un depuratore [A
modifications study of air modificati
due to an air purifor] (*with* **Dalu, G**
21.11–159
See also **Burke, T. P.**, 21.1–339, –57
21.6–106; 21.8–612

Damiean, G.
Climatologie Africaine: possibilités
prévisions à court, moyen et long ter
[African climatology: possibilities
short-, medium-, and long-term foreca
ing], 21.12–125

Danali, Susan D.
On the radioactivity of summer clou
on Mount Olympus, 21.6–256

Danard, Maurice B.
Numerical studies of effects of surface fri
tion on large-scale atmospheric motio
21.7–270

Dandaraon, Zhan Dar
Ekrannyĭ metod opredeleniia vlazhno
vozhukha [Screen method for the dete
mination of atmospheric humidity], 21.
199

Dandekar, B. S.
Equatorial measurements of the (O
5577 Å emission of the dayglow with
rocket photometer, 21.10–477
Note on the equatorial day sky brightne
in the 70–90-km altitude range, 21.8–2

Danforth, William Loynes
Six-level prognostic–diagnostic soluti
procedure with a new approach in mode
ing of boundary layer frictional effec
(*with* **Kalinyak, Paul Peter**), 21.1–2

'Angelo, N.
  Heating of the solar corona, 21.12–641
aniel, O. H.
  Operational experience with passive falling spheres on the AFETR, 21.11–24
aniels, Glen E. (ed.)
  Terrestrial environment (climatic) criteria guidelines for use in space vehicle development, 21.5–666
nielsen, E.
  Observed distribution of radioactivity, ozone, and potential vorticity associated with tropopause folding, 21.12–285
nielsen, Edwin F.
  sentropic trajectory study of a strong northeast monsoon surge (*with* **Ho, F. P.**), 21.5–510
nielson, John A. (ed.)
  Air pollution engineering manual, Air Pollution Control District, County of Los Angeles, 21.5–243
nielson, R. E.
  Oscillatory modes of energy transport in solar magnetic regions (*with* **Savage, B. D.**), 21.2–470
  Transfer of visible radiation through clouds (*with* **Moore, D. R.** and **Van De Hulst, H. C.**), 21.3–504
  Two-layer model of the Jovian clouds (*with* **Tomasko, M. G.**), 21.6–704
  See also **Savage, B. D.**, 21.1–688
nilin, V. A.
  Vliianie ionosfery na radioastronomicheskie nabliureniia s ISZ [Influence of the ionosphere on radioastronomical satellite observations] (*with* **Kazantsev, A. N.**), 21.12–294
  See also **Kazantsev, A. N.**, 21.12–602
nilkin, N. P., *see* **Rodionova, V. T.**, 1.11–207
nilov, Alekseĭ Dmitrievich
  Chemistry of the ionosphere, 21.10–12R
  Vtoroĭ eksperiment po issledovaniiu konstant ionnomolekuliarnykh reaktsiĭ neposredstvenno v ionosfere [Second experiment on the investigation of the constants of iono-molecular reactions directly in the ionosphere] (*with* **Semenov, V. K.**) [and English transl.], 21.4–381
nilov, Victor J.
  Decade ahead, 21.3–756
nkwa, Joseph B.
  Some aspects of precipitation occurring in summer disturbances over Southeast Asia, 21.3–655
Dannevig, Petter
  Fjellboka: vaer, vind og snö i Norges fjellströk [The mountain book: weather, wind and snow in alpine regions of Norway], 21.8–513
Dansgaard, W.
  Glacier oxygen-18 content and Pleistocene ocean temperatures (*with* **Tauber, H.**), 21.4–658
  One thousand centuries of climatic record from Camp Century on the Greenland ice sheet (*with others*), 21.8–526
Danske Hedeselskab, Copenhagen
  Beretning om Det Danske Hedeselskabs kulturtekniske afdelings hydrometriske undersögelser, 1955–60 [Report from the Hydrological Survey of the Danish Health Society, 1955–60], 21.2–519
Danzer, K. H.
  Über zwei Methoden zur Berechnung der Strahlungsmehrfactstreuung in der trüben Atmosphäre [Two methods of calculation of radiation multiple scattering in the turbic atmosphere] (*with* **Bullrich, K.**), 21.4–136
Darchen, J.
  Assistance météorologique à la pêche [Meteorological aid to the fishing industry], 21.9–4
Darchieva, L. A., *see* **Khorosheva, O. V.**, 21.7–373
D'Arcy, Edward M.
  Proposed prelaunch real-time impact prediction system for the aerobee-359 rocket (*with* **Rachele, H.**), 21.3–142
Daret, Francois, *see* **Expeditions Polaires Francaises, 1948**, 21.10–109R
Darmstadt. Technische Hochschule. Inst. für Met., *see* **Szillinsky, A.**, 21.4–111; **Wippermann, F.**, 21.4–112
da Rosa, A. V., *see* **Davis, M. J.**, 21.8–171
Darymov, V. Ia., *see* **Gunin, P. D.**, 21.10–430
Das, Phanindramohan
  [Comments on] **R. C. Srivastava** and **David Atlas:** Growth, motion and concentration of precipitation particles in convective storms and [Reply by] **Srivastava** and **Atlas**, 21.10–382
  Unsaturated downdraught (*with* **Subba Rao, M. C.**), 21.1–540
Datta, R. K.
  Alternative to geostrophic model for prediction at low latitudes (*with* **Pradhan, S. K.**), 21.3–225

Evaluation of maximum rainfall discharge from a region of deficient rainfall data (*with* **Gupta, D. K.**), 21.11–386

Prognostication of divergence field (*with* **Baghare, M. M.**), 21.3–226

Dautcourt, G.

Small-scale variations in the cosmic microwave background, 21.4–467

Davey, B. G.

Potentiometric estimation of chlorine in water extracts of soils (*with* **Bembrick, M. J.**), 21.3–704

David, Clarence L.

Objective method for estimating the probability of severe thunderstorms, 21.9–94

David, Delphine, *see* **Cade, C. M.,** 21.8–624

Davidan, I. N.

Chastotnyi spektr vetrovogo volneniia [Frequency spectra of wind swell], 21.9–738

Sravnitel'naia kharakteristika mezhgodovoĭ izmenchivosti volneniia v Atlanticheskom okeane [Comparative characteristics of seasonal variability of wave activity in the Atlantic Ocean], 21.9–742

Davidson, A. A., *see* **Whalley, R. D. B.,** 21.9–322

Davidson, Burton, *see* **Tarassov, V. J.,** 21.10–759

Davidson, Gilbert, *see* **O.'Neil, R.,** 21.1–468; 21.10–546

Davidson, J. M.

Field measurement and use of soil-water properties (*with others*), 21.9–355

Davies, A. F.

FORTRAN IV computer programs (*with* **Van Cawenberghe, D. A.**), 21.11–25

Davies, Christine M.

Structure of the magnetopause, 21.1–679

Davies, D. A.

Instrumentation for hydrologic data collection and retrieval, 21.8–779

Davies, David, *see* **Kwizak, M.,** 21.5–166

Davies, Edward

Problems of wet tropics, 21.11–671

Davies, I. E.

In situ surge temperature recorder (*with* **Barham, E. G.**), 21.5–788

Davies, J. A.

Reflection coefficients, heating coefficients and net radiation at Simcoe, Southern Ontario (*with* **Buttimor, P. H.**), 21.6–354

Davies, John Lloyd

Landforms of cold climates, 21.12–571

Davies, K.

Doppler radio soundings of the Antarc
ionosphere during 1968 (*with* **Jon**
J. E.), 21.5–342

See also **Baker, D. M.,** 21.7–173

Davies, W. E. R., *see* **DeLeeuw, J.**
21.3–55

Davis, Briant L.

Chemical complexing of AGI-NaI ae
sols, 21.6–568

See also **Blair, D. N.,** 21.3–308

Davis, Bruce W.

Some speculations on adsorption and
sorption of CO₂ in Martian bright are
21.8–745

Davis, D. R.

Ozone as a threat to horticultural crops
North Florida, 21.5–221

Davis, G. H.

Combined environmental isotope
proach for studying water resources
the developing countries (*with other*
21.9–645

Davis, Harlan W., *see* **Friedman, H.**
21.7–13

Davis, John R.

Decameter and meter wavelength ra
studies of artificial plasma clouds in
lower ionosphere, Pt. 1, Thermodyna
properties of the atmosphere discer
from blast wave measurements (*w*
Moore, J. C.), 21.7–179

Davis, K. W.

Test and evaluation of the flash fl
alarm system (*with* **O'Donnell,**
21.2–276

Davis, L., *see* **Dolginov, Sh. Sh.,** 21.11–5
Griffel, D. H., 21.7–368

Davis, L. G.

Weather modification experiments in A
zona (*with others*), 21.1–584

Davis, Larry G., *see* **Rhea, J. O.,** 21.11–
–149

Davis, Leverett, Jr., *see* **Jokipii, J.**
21.7–371

Davis, Luther C., Jr.

Correcting river velocities measured fr
an unanchored ship, 21.10–692

Davis, M. H.

Fast growth rates for cloud droplets
to electrical forces in thunderstor
(*with* **Sartor, J. D.**), 21.9–293

Davis, M. J.

Traveling ionospheric disturbances ori
nating in the auroral oval during p

substorms (*with* **da Rosa, A. V.**), 21.8–171

Davis, M. R.
Dynamic response of constant resistance anemometers, 21.11–91

Davis, Mackenzie Leo
Modeling urban atmospheric temperature profiles, 21.6–450

Davis, Margaret B.
Climatic changes in southern Connecticut recorded by pollen deposition at Rogers Lake, 21.4–324

Davis, N. E.
Diurnal variation of thunder at Heathrow Airport, London, 21.3–473
Some relationships between the 100-millibar chart and surface weather, 21.9–85

Davis, Richard E.
Limb radiance calculation approach for model atmospheres containing horizontal gradients of temperature and pressure, 21.4–137

Davis, Robert K.
Range of choice in water management; a study in dissolved oxygen in the Potomac estuary, 21.1–3

Davis, Rollo T.
Atmospheric stability forecast and fire control, 21.6–150

Davis, Stanley N., *see* **El Boushi, I. M.**, 21.10–730

Davis, Stephen H.
Convection in a box: the dependence of preferred wavenumber upon the Rayleigh number at finite amplitude, 21.1–541

avis, T. Neil
Television observation of auroras, 21.10–505

avis, W. Jeff
"Camille's" impact, 21.7–293

avis, W. K.
Seawater conversion as an alternate water source, 21.8–831

avis, William O.
Environmental prediction using orbital sensors (*with* **Joachim P.**), 21.3–269
Small world, 21.3–11

avitaia, F. F.
Problemy gornoi klimatologii, ikh prikladnoe znachenie i puti resheniia [Problems of mountain climatology, their applied importance and ways of solution] (*with* **Drozdov, O. A.**), 21.11–464

Davletgaliev, S. K.
Analiz metodov postroeniia uslovnoi funktsii raspredeleniia rechnogo stoka [Analysis of methods for constructing specific functions of river runoff distribution], 21.10–752

Davos, Switzerland. Eidgenössisches Institut für Schnee- und Lawinenforschung
Schnee und Lawinen im Winter 1967/68 [Snow and avalanches in winter 1967/68], 21.9–220R

Davtian, N. A.
Modelirovanie vetrovykh techenii iuzhnoi chasti oz. Baikal [Modelling of wind currents for the south zone of Lake Baikal], 21.12–717

Davydov, V. D.
Effekt oppozitsii Marsa i nekotorye vozmozhnye osobennosti struktury kristallov v marsianskoi atmosfere [Opposition effect of Mars and some possible peculiarities of the structure of crystals in the Martian atmosphere], 21.12–607
Novye ob"iasneniia maedovskoi vspyshkĭ na Marse, I [New interpretations of S. Maeda's flare on Mars, Pt. 1], 21.9–513; Pt. 2, 21.9–514
Pargelicheskoe galo na Marse: iarkost' pargelicheskogo galo i kolichestvo kristallov l'da v Marsianskoi atmosfere [The perihelion halo on Mars: brightness of the perihelion halo and quantity of ice crystals in the Martian atmosphere], 21.11–578

Davydov, V. M.
Elektromagnitnoe pole nizkochastotnogo gorizontal'nogo elektricheskogo dipolia v prisutstvii anizotropnoĭ ploskosti [Electromagnetic field of a low frequency horizontal electrical dipole in the presence of the anisotropic plane], 21.8–701

Dawdy, David R.
Considerations involved in evaluating mathematical modeling of urban hydrologic systems, 21.4–507
See also **Burkham, D. E.**, 21.12–702

Daws, L. F.
Cowls in the Old Deer Park (*with* **Lacy, R. E.**), 21.8–692

Dawson, G. A.
Ball lightning as a radiation bubble, (*with* **Jones, R. C.**), 21.8–643
Pressure dependence of water-drop corona

onset and its atmospheric importance, 21.8–652
  Rayleigh instability of water drops in the presence of external electric fields, 21.5–626
  See also **Montgomery, D. N.,** 21.9–296
Dawson, Terence J.
  Bioclimatological comparison of the summer day microenvironments of two species of arid-zone kangaroo (*with* **Denny, M. J. S.**), 21.12–567
Day, Harold J.
  Flood warning benefit evaluation: Susquehanna River Basin (urban residences), 21.10–709
Day, John A.
  Climate and weather, 21.10–1
De, A. C., *see* **Kundu, M. M.,** 21.5–58
Dean, C. H.
  Attenuation of ocean waves near the open-ocean/pack-ice boundary, 21.4–758
  Wave recording in a field of pack ice, 21.4–648
Dean, G. A.
  "Satellite study, tropical North Atlantic, 1963," Pt. 3, 21.4–270
DeAngelis, Richard
  End of the coffin ships, 21.2–287
  Enter "Camille," 21.7–294
  North Atlantic tropical cyclones, 21.6–332
  Tropical cyclones around the world, Pt. 1, 21.6–333
  Typhoons of the western North Pacific, 21.9–189R
  Typhoons of the western North Pacific, 1968, 21.1–402
Dearden, E. W.
  Long range backscatter from F-region irregularities, 21.11–181
  Propagation ducts due to horizontal gradients leading to echoes from magnetic field-aligned F-region irregularities, 21.6–225
Deardorff, J. W.
  Similarity principles for numerical integrations of neutral barotropic planetary boundary layers and channel flows, 21.1–359
Deaven, Dennis G., *see* **Dutton, J. A.,** 21.10–227
De Biasi, G. B.
  Study of the determination of the water equivalent of the snow pack by means of gamma rays, 21.8–459
De Breuck, W.
  Water-table aquifer in the eastern coasta area of Belgium (*with* **De Moor, G.**) 21.10–725
De Bruijn, P.
  Merkwaardige cirrusbewolking [Unusua cirrus clouds], 21.1–578
De Byle, Norbert V.
  Verifying recording precipitation gag records (*with* **Haupt, H. F.**), 21.6–89
DeCamp, Louis E.
  Federal water pollution control admini tration, 21.4–412
DeCooke, B. G.
  Regulation of Great Lakes levels an flows, 21.1–643
Decker, Martin T.
  Radiometric observations of liquid wate in thunderstorm cells (*with* **Dutton Evan J.**), 21.10–91R
  See also **Westwater, E. R.,** 21.6–38
Decker, W., *see* **Hashemi, F.,** 21.6–631
De Cormis, L.
  Contribution à l'étude de l'absorption d soufre par les plantes soumises à un atmosphère contenant du dioxyde d soufre [Contribution to the study of th absorption of sulfur by plants subjec to an atmosphere containing sulfur di oxide] (*with* **Cantuel, J.** and **Bonte J.**), 21.7–140
DeCoursey, Donn G.
  Computer-oriented method of optimizin hydrologic model parameters (*wit* **Snyder, W. M.**), 21.6–747
Dedenko, L. G.
  O vzaimozameniaemosti razlichnykh par ametrov vzaimodeĭstviia nuklonov pionov pri raschetakh srednikh kharak teristik SHAL [Interchangeability of th nucleon–pion interaction parameters i computing the mean characteristics o extensive showers], 21.7–403
  Vliianie temperatury atmosfery na sredni kharakteristiki SHAL [Atmospheri temperature effects upon various mean characteristics of extensive showers] 21.7–402
De Dycker, E.
  Gridding technique for satellite pictures 21.5–93
Deerenberg, A. J. M., *see* **Bleeker, J. A M.,** 21.5–461
DeFazio, Frank G., *see* **Martin, C. S.** 21.10–562

De Félice, Pierre
Étude de la persistance des situations bariques à l'aide d'un catalogue de la carte quotidienne 500 mb [Investigation of the persistence of weather situations by means of a catalog of daily 500-mb maps], 21.12–465
Modèle de perturbation d'obstacle dans un fluide stratifié mettant en évidence l'apparition d'une surface de discontinuité pour la densité [Model of turbulent flow in a stratified fluid, caused by an obstacle, demonstrating the presence of a surface of discontinuity for a given density], 21.10–350

De Fina, Armando L.
Difusión geográfica de cultivos indices en la provincia de Santa Cruz y sus causas [Geographic distribution of crop indexes in the province of Santa Cruz and its causes], 21.2–317
Difusión geográfica de cultivos indices en Tierra del Fuego y sus causas [Geographic distribution of crop indices in Tierra del Fuego and its causes] (*with* **Giannetto, Félix** and **Sabella, Luis J.**), 21.10–118R

De Franceschi, L.
Tungsten radioisotopes in the atmosphere near Pisa, Italy (*with others*), 21.5–361

Degallier, R.
Considérations générales sur l'orientation des recherches sur les mouvements de l'eau en régime non saturé [General considerations on the orientation of research of water movement in unsaturated regimes], 21.4–539

De Geer, Jan
Some hydrogeological aspects on aquifers, especially eskers, 21.4–540

Degen, Vladimir
Vibrational populations of O_2 (A $^3\Sigma u^+$) and synthetic spectra of the Herzberg bands in the night airglow, 21.11–286

Degler, Stanley E.
Federal pollution control programs (*with* **Bloom, S. C.**), 21.4–409
State air pollution control laws, 21.4–410

De Groot, S. J.
Oxygen content of the Wadden Sea (*with* **Postma, H.**), 21.2–723

Degtiarev, G. M.
Privedennyĭ pokazatel' prelomleniia atmosfery nad Severnoĭ Atlantikoĭ i ego izmeneniia v zavisimosti ot sinopticheskikh protsessov [Reduced index of atmospheric refraction over the North Atlantic and its changes depending on synoptic processes], 21.3–390

Deij, L. J. L.
Enige opmerkingen over de neerslagmeting en de neerslagverdeling naar tijd en plaats in ons land [Some notes on the measuring of precipitation and its partition in time and space in the Netherlands], 21.5–133

Deirmendjian, D.
Sunspot observation through water clouds, 21.5–715

Deissler, Robert G.
Analysis of some simplified models of turbulence, 21.9–193

Deitz, Paul H.
Optical propagation in a near-Earth environment, 21.6–251
Probability analysis of ocular damage due to laser radiation through the atmosphere, 21.2–408

De Jager, C.
Acceleration processes in solar flares, 21.2–479
Development and structure of an active region, 21.2–461
Het ruimto-onderzoek in 1968 [Space investigation in 1968], 21.8–707
High-energy flare plasma, 21.10–652
Solar flares: properties and problems, 21.10–653

De Jong, C. H.
Ijssel Lake as a multi-purpose reservoir, 21.2–609

De Jong, H. M.
Provision of meteorological information to airline operators for computerized flight planning, 21.12–6

Dekker, G.
Water resources development and meteorology, 21.11–6

De Laine, R. J.
Measuring rainfall on forest catchments, 21.6–90

De la Mothe, P. D.
Onset of the Indian southwest monsoon and extratropical 500-mb trough and ridge patterns over Europe and Asia (*with* **Wright, P. B.**), 21.7–492

De La Riva, C., *see* **Israel, H.**, 21.12–324

Delavault, R. E., *see* **Warren, H. V.**, 21.1–310

Delbouille, L.
High resolution spectra of the Sun (*with* **Roland, G.**), 21.10–663

Deleanu, M.
Cercetări privind ionizarea aerului ca factor biometeorologic [Air ionization investigated as a factor of biometeorology], 21.4–382

DeLeeuw, J. H.
Simultaneous measurement of temperature and density by an electron beam luminescence technique (*with* **Davies, W. E. R.**), 21.3–55

Deleur, M. S.
Vliianie rel'efa mestnosti i meteorologicheskikh uslovii zimy na respredelenie snezhnogo pokrova v basseĭnakh rek Srednego Dnepra [The effect of terrain relief and meteorological conditions during winter on the snow cover distribution in river basins of the Central Dnieper], 21.5–629

Delfino, Joseph J.
Chemistry of manganese in Lake Mendota, Wisconsin (*with* **Lee, G. F.**), 21.10–764
Colorimetric determination of manganese in lake waters (*with* **Lee, G. F.**), 21.7–814

De Lisle, J. F.
Computers and meteorology in New Zealand, 21.10–2

Dell'Anna, G., *see* **Bottino, A.**, 21.6–398

Delleur, Jacques W.
Fortran-hydro (*with* **Toebes, G. H.**), 21.5–743

Delone, A. B.
Preliminary report on photographing the solar corona in 5303 Å with a polaroid and Fabry–Perot interferometer during the total solar eclipse of September 22, 1968 (*with* **Makarova, E.**), 21.9–549

Del Raffo, José M., *see* **Galmarini, A. G.**, 21.8–508

Del Trono, Fulvio
Metodo obiettivo per la previsione di carte medie stagionali e mensili [Objective method of forecasting mean seasonal and monthly charts], 21.7–75

DeLuisi, J. J.
Study of the effect of haze upon Umkehr measurements, 21.1–455

Delver, N., *see* **Angell, J. K.**, 21.4–243

Delys, C.
Activité radioélectrique solaire en 1964 [Solar radio emission activity, 1964], (*with* **Gonze, R.**), 21.2–424
Activité radioélectrique solaire en 1965 [Solar radio emission activity, 1965], (*with* **Gonze, R.**), 21.2–425

De Maio, A.
Su alcune caratteristiche dell'andame
annuo della eliofania a Napoli [So
characteristics of the annual trend
sunshine duration at Naples] (*wi*
Moretti, M. and **Rosini, E.**), 21.8–23
Su alcuni impieghi delle elaborazioni sta
istiche in oceanografia [Some uses a
elaboration on statistics in ocea
ography] (*with* **Moretti, M.**), 21.2–7

De Mendonça, F.
Equatorial atmosphere measurements o
tained with the sounding rocket grena
experiment (*with* **Sobral, J. H.** a
Rai, D. B.), 21.5–80

Dement'eva, N. V.
Livni, grad i shkvaly na territorii Verkhn
Volzhskogo upravleniia gidrometsluz
by za period s 1953 po 1962 [Showe
hail, and squalls in the area of the upp
Volga hydrometeorological service a
ministration 1953–1962], 21.2–101

Demidovich, E. G., *see* **Bakanov, V. A**
21.10–482

Demin, V. V.
Koeffitsient pogloshcheniia v spinvras
chatel' nykh liniiakh kisloroda v atmo
fere v geomagnitnom pole [Absorptio
coefficient in spin-rotational oxyge
lines in the atmosphere in a geomag
netic field], 21.9–154

De Moor, G., *see* **De Breuck, W.**, 21.10–72

Dendenkova, N. S., *see* **Zmieva, E. S**
21.2–525

Denham, Dale H.
Effect of atmospheric tritum on photo
graphic, thermoluminescent and radio
photoluminescent dosimeters (*with*
Kathren, Ronald L.), 21.1–175

Denisov, Iu. M.
Nekotorye puti rascheta smeshannykh mak
simal'nykh raskhodov gornykh re
[Some ways of computing mixed maxi
mum mountain river discharges], 21.9
19R
Numerical model of the nonstationar
temperature field of flowing bodies o
water (*with* **Oreshina, L. M.**) [Transl
from Russian], 21.4–592
Obrazovanie i dvizhenie neszhimaemo
snezhnoĭ laviny [Formation and motio
of an incompressible snow avalanche]
21.11–410
See also **Borovikova, L. N.**, 21.12–708

Denisov, V. M.
Numerical model of the runoff process of mountain rivers, 21.9–583
Ob opredelenii srednei skorosti techeniia vody na vertikali po izmereniiam mestnykh skorostei v dvukh-trekh tochkakh [The determination of the mean vertical flow velocity from local velocity measurements at two or three points], 21.10–749

Denivos, Iu. M. (ed.), *see* **Sredneaziatskii Nauchno-Issledovatel'skii Gidrometeorologicheskiĭ Institut, Tashkent,** 21.11–104R

Denmark. Meteorologisk Institut
Isforholdene i de Groenlandske Farvande, 1959 [Ice conditions in Greenland waters, 1959], 21.9–177R
Isforholdene i de Groenlandske Farvande, 1963 [Ice conditions in Greenland waters, 1963], 21.11–60R
Månedlige overfladetemperaturer i det Nordlige Atlanterhav, 1967 [Monthly surface temperatures of the Northern Atlantic, 1967], 21.9–176R

Denmead, O. T.
Comparative micrometeorology of a wheat field and a forest of *Pinus radiata,* 21.5–669
See also **Anderson, M. C.,** 21.7–317

Denner, Warren, *see* **Neal, V. T.,** 21.2–708

Dennett, Joann Temple
Alaska: land of extremes, 21.10–3
Hawaii's science peak, 21.10–35

Dennis, A. S.
Characteristics of hailstorms of western South Dakota (*with* **Schock, C. A.** and **Koscielski, A.**), 21.6–619
Flashing behavior of thunderstorms, 21.8–625
North Dakota Pilot Project, Pt. 1, Work plans (*with* **Musil, D. J.**), 21.8–124
Results of a randomized cloud seeding experiment in South Dakota (*with* **Koscielski, A.**), 21.3–306

Denny, M. J. S., *see* **Dawson, T. J.,** 21.12–567

Denver. Univ. Dept. of Physics, *see* **Murcray, D. G.,** 21.6–360

De Peralta, Marie Theresa C.
Length of neutral lines as an indicator of flare productivity (*with* **Billings, D. E.**), 21.10–654

Derbyshire, Edward, *see* **Dort, W., Jr.,** 21.6–817

Derbyshire, J. C.
Evaluation of dewatering and wilting as moisture reduction methods for hay-crop silage (*with others*), 21.8–682

Derevianko, A. N.
Raschet srokov nachala polevykh rabot i seva rannikh iarovykh zernovykh kul'tur v nechernozemnoĭ zone Evropeĭskoĭ territorii RSFSR [Calculation of dates for the beginning of field works and sowing of early spring cereal crops in the nonchernozem zone of the European territory of the U.S.S.R.], 21.2–318

Deriagin, B. V.
Izmerenie plotnosti kapel' strukturno modifitsirovannoĭ vody [Measurement of the density of structurally modified water drops] (*with others*) [and English transl.], 21.2–248
Theory of passivation of the growth of water condensation nuclei by cetyl alcohol vapour (*with* **Kurghin, Iu. S.**), 21.12–496

Dernis, A., *see* **Asselin de Beauville, J. P.,** 21.6–86

Derome, Jacques Florian
Maintenance of the time-averaged state of the atmosphere, 21.3–412

De Roo, H. C.
Water stress gradients in plants and soil-root systems, 21.8–486

Derr, V. E., *see* **Schwiesow, R. L.,** 21.12–222

Derrick, E. H.
Short-term variation of asthma in Brisbane: its relation to the weather and other factors, 21.11–466

Desai, B. N.
Air-mass dynamics or subsidence processes in the Arabian Sea monsoon, 21.2–106
Bay of Bengal monsoon, 21.7–493
Chief factors which control activity of the southwest monsoon over the Indian subcontinent, 21.5–511
[Comments on] **D. R. Sikka** and **M. B. Mathur:** Transport of water vapour over the Arabian Sea and adjoining Indian region, 21.6–534
See also **Rao, Y. P.,** 21.10–336

Descamps, V. J.
Runway visual range, 21.2–340

Deschwanden, J. S. von
Der Mensch im Klima der Alpen: Bioklimatologie, Physiologie des Höhenklimas, Klimatherapie [Man in the

Alpine climate: bioclimatology, physiology of mountain climates, climatotherapy] (*with* **Schram, K.** and **Thams, J. C.**) (eds.), 21.8–538

Deshi, F.

Issledovanye statisticheskoĭ struktury meteorologicheskikh poleĭ v Vengrii [Investigation of the statistical structure of meteorological fields in Hungary] (*with* **Rakotsi, F.**), 21.5–6

Deshpande, D. V.

Estimation of cloud heights at sunrise/sunset, 21.8–369

Desjardins, R. L.

Variations of meteorological factors in a greenhouse (*with* **Robertson, G. W.**), 21.4–336

De Souza, Rosa M., *see* **Kaufmann, P.**, 21.5–350

Dessens, Henri

Expérience de pluie provoquée par ensemencement ininterrompu à partir du sol [Experiment in artificial precipitation by continuous seeding from the ground], 21.5–204

Dessens, Jean

Expérience de suppression de la grêle dans le Sud-Ouest de la France [Suppression experiment of hail in SW France], 21.7–117

Dessler, A. J.

[Discussion of] **Peter M. Banks** and **Thomas E. Holzer**: The polar wind [and Reply by] **Banks** and **Holzer** (*with* **Cloutier, P. A.**), 21.3–384

General applicability of solar-wind and solar-breeze theories, 21.9–220

Solar wind interactions and the magnetosphere, 21.3–525

See also **Few, A. A.**, 21.8–665

Dessureault, Raynald

Potable water resources and water supply problems in the Magdalen Islands, 21.9–623

De Swart, J. G., *see* **Groenevelt, P. H.**, 21.1–652

De Sylva, Donald P.

Unseen problems of thermal pollution, 21.2–761

Detrie, J. P.

Conditions météorologiques et pollution atmosphérique dans la Région parisienne [Meteorological conditions and atmospheric pollution in the Paris region], 21.3–333

Dettwiller, Jacques

Deep soil temperature trends and urban effects at Paris, 21.6–460

Vent au sommet de la Tour Eiffel [Wind at the top of the Eiffel Tower], 21.1–507

De Turville, C. M., *see* **Jarman, R. T.**, 21.5–259

Deubner, Franz-Ludwig

Magnetic and Doppler oscillations in active regions, 21.11–647

Some properties of velocity fields in the solar photosphere, Pt. 2, The spatial distribution of the oscillatory field, 21.8–758

Deuser, W. G.

Stable isotope ratios of dissolved inorganic carbon in the Atlantic (*with* **Hunt, J. M.**), 21.1–734

Deutsche Versuchsanstalt für Luft- und Raumfahrt e.V., Munich

9. (Abschluss-) Bericht über die Hagelabwehrversuche im Landkreis Rosenheim [9th and final Report on hail prevention in the district of Resenheim], 21.6–155

Devereux, I.

Pliocene and early pleistocene sea temperature fluctuations, Mangaopari Stream, New Zealand (*with* **Hendy, C. H.** and **Vella, P.**), 21.10–827

Devillaz, E.

Service météorologique de l'U. S. Navy [Meteorological service of U. S. Navy], 21.6–2

Devine, James C.

"Snowburst" of March 14, 1969 at Fort Huachuca, Arizona, 21.8–435

De Violini, Robert, *see* **O'Neill, T. H. R.**, 21.9–9

DeVorkin, Donald B.

Significant advances in statistical long-range forecasting (*with* **Prohaska, J. T.**), 21.5–32

De Vries, J.

In situ determination of physical properties of the surface layer of field soils, 21.10–425

De Vuyst, A.

Distribution du champ magnetique terrestre au Grand-Duché de Luxembourg au 1^{er} janvier 1965 [Distribution of the Earth's magnetic field in the Grand Duchy of Luxemburg, on Jan. 1, 1965], (*with* **Pohl, J.**), 21.5–742

Dewan, Edmond M.

Nonlinear cross-spectral analysis and pattern recognition, 21.1–99

De Wit, C. T., *see* **Idso, S. B.,** 21.7–324

Dexter, E. H. V.

Rivière tornado, July 20, 1968, 21.1–411

Dey, Clifford H.

Note on global forecasting with the Kurihara grid, 21.3–216

De Zorzi, Guido

Applicazione della equazione di diffusione allo studio della bassa atmosfera [Application of the diffusion equation to the study of the lower atmosphere], 21.11–233

Dezső, L.

Migration of sunspot activity along solar meridians and parallels (*with* **Gerlei, O.** and **Kovács, Á.**), 21.2–471

Dhar, O. N.

Brief study of rainfall and spillway design storm for the Godavari basin up to Paithan dam site (*with* **Mhaiskar, P. R.** and **Ghose, G. C.**), 21.8–395

Pilot study for the estimation of probable maximum precipitation using Hershfield technique (*with* **Kamte, P. P.**), 21.9–316

Preliminary study of storm maximization by moisture charge method (*with* **Mhaiskar, P. R.**), 21.10–388

Study of July 1927 rain-storm which caused severe floods in the Baitarani delta (*with* **Kamte, P. P.**), 21.11–430

D'iachenko, L. N.

O sravnenii raschetnykh velichin balansa dlinnovolnovoĭ radiatsii atmosfery i ego sostovliaiushchikh s rezul'tatami sputnikovykh i radiozondovykh izmereniĭ [Comparison of the calculated values of the long-wave radiation balance of the atmosphere and its components with the results of measurements by the use of satellites and radiosondes (*with* **Kondrat'ev, K. Ia.**), 21.1–424

Diachuk, V. A.

Elektrizatsiia ledianykh sharov pri soudarenii v elektricheskom pole [Electrification of ice spheres upon their collision in an electric field] (*with* **Muchnik, V. M.**), 21.10–499

Diaconescu, Gh. I.

Distribuţia depunerilor radioactive in România [The spread of radioactive fallout in Rumania] (*with* **Butoi, S.** and **Tumanov, S.**), 21.4–81

Răspîndirea aerosolilor întro-o vale, în jural unei surse [Aerosol spreading in a valley around a source] (*with others*), 21.3–334

Rol' atmosfernoĭ stratifikatsii v raspredelenii radioaktivnykh otlozheniĭ [Role of atmospheric stratification in distributing radioactive fallout] (*with* **Butoi, Speranta** and **Tumanov, S.**), 21.1–348

Dias Pessoa, Mário, *see* **Chada Filho, L. G.,** 21.4–536

Dick, K. A.

Up-down photometers for auroral profile studies (*with* **Fastie, W. G.**), 21.9–443

Dicke, R. H.

Why are sunspots dark and faculae bright?, 21.6–721

Dicker, Theodore

Geochemical classification of groundwater in the Carmel region, 21.4–553

Dickinson, R. B. B.

Effect of minor relief on the distribution of precipitation, 21.1–617

See also **Burns, L. M. D.,** 21.11–128

Dickinson, Robert E.

Propagators of atmospheric motions, Pt. 1, 21.5–377; Pt. 2, 21.5–378

Steady circulation of a nonrotating, viscous, heat conducting atmosphere, 21.5–394

Dickson, Robert

Atmospheric and marine climate fluctuations in the North Atlantic region (*with* **Lee, A.**), 21.10–828

Dickson, Robert R.

Weather and circulation of August 1969: a month with record warmth in the west, 21.7–32

Diduch, O. J.

Preliminary analysis of gusts over Montreal (*with* **Klaponski, C. E.**, 21.4–191

Diem, Max

Physik der Niederschlagsbildung [Physics of precipitation], 21.6–601

Diemel, W. E., *see* **Namba, O.,** 21.8–762

Dieminger, W.

Feasibility study on the calculation of the integral content ∫*N ds* of the upper atmosphere and a proposal for a new-style beacon experiment in order to determine ∫*N ds* for the ionosphere and magnetosphere up to 36,000 km using signals from geostationary satellites (*with* **Hartmann, G. K.** and **Schmidt, G.**), 21.4–62

Dietrich, Günter
Atlas zur Ozeanographie [Atlas of oceanography] (*with* **Ulrich, Johannes**), 21.1–38
See also **Wooster, W. S.**, 21.2–711; 21.4–673; 21.5–794
Dietz, Robert S.
First deep-sea sounding (*with* **Knebel, H. J.**), 21.4–653
Ocean basins and lunar seas, 21.1–728
Dietze, Gerhard
Ein teilautomatisches Gerät zum Messen der Himmelslicht-Polarisation bei Tage und in der Dämmerung [Semi-automatic device for measuring sky light polarization during the day and at dusk] (*with* **Seidel, H.**), 21.2–348
On the aerosol factor in the twilight method, 21.10–487
Zones of the visibility of a noctilucent cloud, 21.8–580
Zu den Bezichungen zwischen Airglow und Himmelslichtopolarisation in der Dummerung [Relationship between airglow and sky light polarization at twilight], 21.8–246
Die Umschau [Frankfurt a.M.]
Erstes deutsches Satelliten-Experiment erfolgreich [First German satellite experiment successful], 21.5–94
Luftverunreinigung durch Autoabgase [Air pollution by automobile exhaust fumes], 21.5–268
DiGiano, F. A., *see* **Weber, W. J., Jr.**, 21.8–694
DiGiovanni, Hugo J., *see* **Solon, L. R.**, 21.1–205
Dikiĭ, Leonid Aleksandrovich
Ob ustoĭchivosti vychisleniia vertikal'nykh skorosteĭ po poliu davleniia [Computation stability of vertical velocities from the pressure field] (*with* **Kukharchik, M.**, and **Saitova, N. M.**), 21.6–519
Teoriia kolebaniĭ zemnoĭ atmosfery [Theory of oscillation of the Earth's atmosphere], 21.7–239
Dilkov, D.
Pochveno-klimatichnite usloviia i vlagozapasiavashtoto napoiavane pri chernozemite v Severna Bŭlgariia [Soil-climatic conditions and irrigation in the Northern Bulgarian chernozem zone], 21.7–650
Dilkova, R., *see* **Galeva, V.**, 21.9–463
Dimaksian, A. M.
Radiotelemetricheskaia sistema opoveshcheniia o selevykh potokakh [Radio-telemetric system of warning of mudflows] 21.5–746
Dimitrov, Evg.
Klimatichni i mikroklimatichni osobenost v rezhima na temperaturata na pochvata v gorski nasazhdeniia [Climatic and microclimatic singularities in the temperature regime of soil in forest plantations] 21.2–205
Dimov, N. A.
On the determination of night sky brightness from a space vehicle (*with* **Severnyl, A. B.**), 21.7–349
Dincă, Ileana, *see* **Stoenescu, St. M.**, 21.3–555
Dincer, T.
Current trends in the use of radioactive tracers in hydrologic investigations (*with* **Halevy, E.**), 21.8–782
Dinger, J. E.
On the source and composition of cloud nuclei in a subsident air mass over the North Atlantic (*with others*), 21.11–371
Dingle, A. Nelson
Tracer experiments in convective storms: *in situ* research on nucleation, 21.12–396
See also **Bhatki, K. S.**, 21.11–389
Dingle, W. R. J., *see* **Zillman, J. W.**, 21.12–353
Dingman, S. Lawrence
Effects of thermal pollution on river ice, Pt. 2 (*with* **Assur, A.**), 21.4–505
Dinning, S. E., *see* **Hirt, M. S.**, 21.9–125
Dinsmore, R. P.
Coast Guard oceanography, 21.4–629
Dinulescu, Vasile, *see* **Maris, G.**, 21.10–657
Diouf, A.
Contribution à l'étude du temps en Afrique de l'Ouest [Contribution to the study of the weather in West Africa], 21.12–372
Dirks, R. A.
Climatology of Central Great Plains mesoscale convective systems, 21.3–483
Diskin, M. H.
Thiessen coefficients by a Monte Carlo procedure, 21.5–61
Disney, R. T.
High frequency electromagnetic interference environmental changes expected from future developments near U. S. Navy antenna sites (*with* **Spaulding, A. D.** and **Espeland, L. R.**), 21.2–409
Dittberner, G. J., *see* **Shafrir, U.**, 21.5–711

iubkin, I. A.

Ob ustoĭchivosti srednemesiachnykh znacheniĭ temperatury i davleniia vozdukha v observatorii Mirnyĭ [Stability of mean monthly values of air temperature and pressure for the observatory at Mirny], 21.11–314

iuke'l, N. G.

Nekotorye osobennosti termicheskogo rezhima rek v basseinakh Dunaia i Dnestra [Some features of the thermal regime of rivers of the Danube and Dniestr basins], 21.12–463

ivinskaia, B. Sh.

Ispol'zovanie radiolokatsionnykh dannykh v praktike sinopticheskogo analiza [Use of radar data for practical synoptic analysis], 21.1–111

See also **Sal'man, E. M.,** 21.3–93

ivoky, David

Breaking waves on gentle slopes (*with others*), 21.12–792

ixon, Bettye, *see* **Spillane, K. T.,** 21.12–389

ixon, R.

Orthogonal polynomials as a basis for objective analysis, 21.7–85

Towards a four-dimensional analysis of meteorological data (*with* **Spackman, E.**), 21.12–138

izer, M.

Isophotal photometry and morphological changes in the flares, 21.9–539

jurić, Dušan

Note on estimation of vertical motion by the omega equation, 21.9–270

łutek, Jerzy, *see* **Mikulski, Z.,** 21.4–503

mitrenko, V. P.

Ob optimal'nykh znacheniiakh i zakonomernostiakh vliianiia osadkov i temperatury vozdukha na urozhainost' sel'skokhoziaistvennykh kul'tur [Optimum values and relationships for the effect of precipitation and temperature on the harvest of agricultural crops], 21.12–568

Ob osnovakh metoda aerovizual'nykh agrometeorologicheskikh nabliudenii [Fundamentals of the method of aero-visual agrometeorological observation], 21.12–7

Ob uchete agrotekhniki v issledovaniiakh sviazi urozhaia sel'skokhoziaĭstvennykh kul'tur s gidrometeorologicheskimi faktorami [Consideration of agricultural technology in the study of the relationship between the yield of agricultural crops and hydrometeorological factors], 21.2–319

See also **Grushka, I. G.,** 21.12–159

Dmitriev, A. A.

Modelirovanie zadachi opredeleniia temperatury rek so sputnikov [Modeling of the problem of determining the temperature of rivers from satellites] (*with* **Evnevich, T. V.**), 21.3–574

Ob ob″ektivnom opredelenii tipa tsirkuliatsii [The objective determination of the type of circulation], 21.1–377

Raschet istinnoĭ iakosti po sglazhennoĭ [The calculation of the true brightness by smoothing] (*with* **Indzhgia, R. G.**), 21.1–456

Dmitriev, A. V.

Samoletnaia gamma-s'emka snezhnogo pokrova [Gamma-rays survey of snow cover from aircraft], 21.11–398

Dmitriev, E. A.

Explanation of the reasons for the asymmetric distribution of water permeability (*with* **Manucharov, A. S.**), 21.11–434

Dmitriev, M. T.

Ionizatsionno-khromatograficheskoe opredelenie amino- i tsianoisoedineniĭ v atmosfernom vozdukhe [Ionization-chromatographic determination of amino- and cyanide compounds in the atmosphere] (*with* **Kitrosskiĭ, N. A.**), [and English transl.], 21.3–48

Dmitrieva, M. G.

Supergranular pattern and the stable stages of sunspot groups (*with* **Kopecky, M.** and **Kuklin, G. V.**), 21.8–761

Dmitrieva-Arrago, L. R.

K raschetu polia korotkovolnovoi raidatsii v skheme obshchei tsirkuliatsii atmosfery [Calculation of short-wave radiation by use of a general circulation model of the atmosphere] (*with* **Samoilova, L. V.**), 21.12–406

O priblizhennom sposobe opredeleniia granits oblachnosti [Approximation method for determination of cloud boundaries] (*with* **Koloskova, L. F.**), 21.7–580

Sessiia Mezhduvedomstvennogo nauchnogo soveta po izucheniiu klimaticheskikh i agroklimaticheskikh resurov [Session of the Interdepartmental Scientific Council on the Study of Climatic and Agroclimatic Resources], 21.5–7

See also **Meshcherskaia, A. V.,** 21.2–636

Doan, Lawrence R., *see* **Sandford, Brian P.**, 21.10–47R

Dobbins, D. L.
- Number density determination in the atmosphere of O_2, H_2O, and CO_2 gas constituents by use of a high intensity laser beam (*with* **LaGrone, A. H.**), 21.3–56

Doberitz, Rolf
- Cross-spectrum and filter analysis of monthly rainfall and wind data in the tropical Atlantic region, 21.11–329
- Kohärenzanalyse von Niederschlag und Wassertemperatur im tropischen Pafischen Ozean [Cross-spectrum analysis of precipitation and water temperature in the tropical Pacific Ocean], 21.2–208
- Teleconnections and phase relations of rainfall at the tropical Pacific Ocean, 21.5–616

Dobisik, V., *see* **Sramek, L.**, 21.12–200

Dobosclard, G., *see* **Donnadieu, G.**, 21.2–11

Dobosi, Z.
- Meteorological education and training in Hungary (*with* **Rákóczi, F.**), 21.1–64

Dobrea, Itamar
- Unele caracteristici microclimatice ale zonei lacului Baneasa [Some microclimatic characteristics of the Baneasa Lake zone] (*with* **Birca, I.**), 21.12–564

Dobrovol'skiĭ, A. F.
- Termoanemometr dlia izmereniia malykh skorosteĭ vozdushnogo potoka [Thermoanemometer for measuring low-velocity air flows] (*with* **Smirnov, V. V.**), 21.3–193

Dobryshman, E. M.
- Ispol'zovanie metoda proseivaniia dlia analiza i prognoza polia geopotentsiala nad Sredneĭ Azieĭ pri klolodnykh vtorzheniiakh [Use of the screening method for analysis and prognosis of the geopotential field over Central Asia during cold intrusions] (*with* **Tagaĭmurdov, Iu. T.**), 21.6–136
- O chislennykh metodakh prognoza [Numerical methods of prediction] (*with* **Mashkovich, S. A.**), 21.3–230
- O nekotorykh statisticheskikh kharakteristikakh radiatsionnogo balansa Gruzii [On some statistical characteristics of the radiation balance for Georgia] (*with* **Nadibaidze, N. F.**), 21.4–126
- On a numerical scheme of wind field prediction, 21.3–254

Docherty, J., *see* **Gibson, J. A. B.**, 21.4–79

Dodson, Helen W.
- History and morphology of solar acti 1964–1965 (*with* **Hedeman, E.** 21.9–523
- Increasing optical evidence for mass tions in solar flares, 1937–1967 (**Hedeman, E. R.**), 21.1–700
- Reevaluation of solar flares, 1964– (*with* **Hedeman, E. R.**), 21.2–480
- Solar circumstances at the time of cosmic-ray increase on January 28, (*with* **Hedeman, E. R.**), 21.10–293
- Some patterns in the development of ters of solar activity 1962–1966 (**Hedeman, E. R.**), 21.2–462

Doe, L. A. E., *see* **Smith, S. D.**, 21.2–73

Döös, Bo R.
- Chislennoe predskazanie pogody s po shch'iu barotropnoĭ modeli [Numer weather prediction with the aid of barotropic model], 21.8–90
- Chĭslennyĭ analiz meteorologichesk dannykh [Numerical analysis of mete ological data], 21.8–89

Doering, John P., *see* **Williams, A. J., I** 21.11–541

Dogaru, Lucian, *see* **Cioc, D.**, 21.12–709

Dogniaux, R.
- Étude statistique des relations entre composantes du rayonnement solaire g bal à partir d'observations radiomét ques: période de référence 1951–1 [Statistical study of relation betwe the components of global solar rad tion based on radiometric observatio reference period 1951–1965] (*w* **Doyen, P.**), 21.12–408
- Meteorological instrument developme introduction of new types of instr ments in the networks of radiation s tions in Europe, 21.1–166

Doherty, W. R., *see* **Curtis, S. B.**, 21.8–2

Dokuchaev, V. P., *see* **Grigor'ev, G.** 21.10–166

Dolganov, L. V.
- Shtormovye vetry v raĭone Berega Prav [Storm winds in the region of t Pravda coast], 21.3–614

Dolgin, I. M.
- Osnovopolozhniki arkticheskoĭ meteoro ogii [The forerunners of Arctic m teorology] (*with* **Prik, Z. M.**), 21.3–1
- Osnovopolozhniki arkticheskoĭ sinopt cheskoĭ meteorologii [Founders of Arc tic synoptic meteorology], 21.11–51R

Rol' P. A. Molchanova v issledovanii Arktiki (k 75-lteiiu so dlia rezhdeniia) [Role of P. A. Molchenov in Arctic research (the 75th birthday)], 21.3–13
Dolginov, Sh. Sh.
O prirode magnitnogo polia v okrestnosti Venery [Nature of the magnetic field in the vicinity of Venus] (*with others*), 21.11–549
Dolgova, E. I.
Ionosfera vysokoshirotnoĭ Atlantiki [Ionosphere of the high latitude Atlantic], 21.8–172
Dolgushin, I. Iu.
Effect of climatic fluctuation on the physical environment and conditions of economic development of the Middle Ob' District [Transl. from Russian], 21.2–297
Osobennosti polovodiĭ na Nizhneĭ Obi [Characteristics of floods on the lower Ob], 21.11–691
Dolgushin, I. P.
Analiz izmereniĭ profilia skorosteĭ vetra na televizionnoĭ vyshke v g. Gor'kom [Analysis of measurements of wind speed profiles from a television tower in the city of Gorki], 21.2–229
O sviazi mezhdu osrednennoĭ skorost'iu i otdel'nymi poryvami vetra [Relationship between average wind speed and single wind gusts], 21.2–222
Dollfus, Audouin
Atmosphère primitive de la planète Mars d'après les photographies transmises par les sondes Mariner VI et VII [Primitive atmosphere of the planet Mars according to photographs transmitted by Mariner VI and VII] (*with* **Fryer, R.** and **Titulaer, C.**), 21.10–613
Observation des jets et concentrations de la couronne au-dessus de régions actives [Observation of corona jets and concentrations above active regions], 21.2–499
Planète Mars: la nature de sa surface et les proprietés de son atmosphère, d'après la polarisation de sa lumière, 1, Observations [Planet Mars: the nature of its surface, and the properties of its atmosphere according to the polarization of its light, Pt. 1, Observations] (*with* **Focas, J.**), 21.8–746
Dolov, M. A.
Nekotorye voprosy struktury snezhnogo pokrova i teplofizicheskie svoĭstva vlazhnogo snega [Some problems of the structure of snow cover and the thermophysical properties of moist snow], 21.9–326
Relaksatsiia napriazhenii v snezhnom pokrove [Relaxation of the stress in snow covers] (*with* **Kislov, B. V.**), 21.9–327
Dolzhankiĭ, F. V.
O raschete zonal'noĭ tsirkuliatsii atmosfery [The calculation of the atmospheric zonal circulation] [and English transl.], 21.3–430
Dombkovskaia, E. P.
Korreliatsionnaia zavisimost' mezhdu intensivnost'iu teplovogo radioizlucheniia sistemy Zemlia-atmosfera i vodozapasom oblakov [Correlation relationship between the intensity of heat radio emission in the Earth–atmosphere system and the water content of clouds], 21.6–582
O vozmozhnosti opredeleniia vertikal'nogo raspredeleniia vodianogo para po izmereniiam mikrovolnovogo izlucheniia sistemy Zemlia-atmosfera [The possibility of determining the vertical distribution of water vapor from measurements of microwave emission of the Earth–atmosphere system], 21.5–48
Sviaz' mezhdu oblachnymi massivami, vidimymi so sputnika, i zonami vypadaiushchikh iz nikh osadkov [Relationship between cloud masses and associated zones of precipitation visible from satellites], 21.2–255
Domrös, Manfred
Frost in Ceylon, 21.12–450
Klimatologische Untersuchungen auf Ceylon [Climatological investigations in Ceylon], 21.4–313
Donahue, T. M.
Hydrogen bulge over the springtime pole, 21.3–385
Donaldson, Ralph J., *see* **Armstrong, G. M.**, 21.3–210
Donciu, C.
Contribuţie la studiul corelaţiei dintre temperatura suprafeţei solului, temperatura aerului şi temperatura în stratul arabil în zonele de şes din sudul şi vestul ţării [Contribution to a correlational study involving surface temperature, air temperature, and A-horizon temperature found in the arable flatland lying south and west of the country] (*with others*), 21.3–564

Unele caracteristici ale regimului termic al solului si aerului in zona dealurilor subcarpatice meridionale, la Valea Càlugàreascà [Some characteristics of soil and air thermal regime in the premountainous zone of the Southern Carpathians, Valea Càlugàreascà]. 21.11–307

Donguy, J. R.

Aperçu des conditions hydrologiques de la partie nord du canal de Mozambique [Survey of the hydrological conditions of the north part of the Mozambique Channel] (*with* **Piton, B.**). 21.7–833

Esquisse du régime hydrologique au large de la Côte des Graines et de la Côte d'Ivoire entre Abidjan et Monrovia [Outline of the hydrological regime off the Grain Coast and Ivory Coast between Abidan and Monrovia] (*with* **Prive, M.**). 21.1–754

Doniaux, R.

Bases météorologiques du calcul des échanges thermiques au cours de la période hivernale. 21.5–681

Donley, J. L.

Comparison of results of Explorer XXXI direct measurement probes (*with others*). 21.10–162

Thermal ion and electron trap experiments on Explorer XXXI satellite. 21.11–182

Donn, William L.

Coupling between a moving air-pressure disturbance and the sea surface (*with* **Balachandran, N. K.**). 21.12–373

See also **Balachandran, N. K.**, 21.4–388, **Posmentier, E. S.**, 21.5–24

Donnadieu, G.

Études sur radars millimétriques de formations nuageuses convectives. Pte. 2 (*with* **Dubosclard, G.** and **Godard, S.**). 21.2–11

Pluviomètre photo-électrique pour la détermination simultanée des spectres dimensionnel et de vitesse de chute des gouttes de pluie [Photoelectric pluviometer for the simultaneous determination of the dimensional spectra and of the fall speed of raindrops] (*with* **Dubosclard, G.** and **Godard, S.**). 21.3–005

Donnelly, J.

Effect of weather and season on the incidence of redwater fever in cattle in Britain (*with* **MacKellar, J. C.**). 21.11–303

Donnelly, Richard F.

Analysis of sudden ionospheric [illegible] ances associated with the proton fla 1522 hr UT, August 28, 1966. 21.2–69

Contribution of X-ray and extreme ul violet radiation of solar flares to sud frequency deviations. 21.9–[illegible]

Energetic X-ray and extreme ultravio flashes of solar flares. 21.4–34[illegible]

Donoso R., Jaime

[illegible] **Marin G., Augusto**), [illegible] 958

Dooley, J. T., *see* **Wilk, K. E.**, 21.2–[illegible]

Doolittle, R. C.

Mapping of geostationary satellite tures: an operational experiment (*with others*). 21.11–79

Dorling, E. B.

Rocket studies of sporadic-E ionisa (*with* **Norman, K.** and **Willmore, A. P.**). 21.3–573

Dorman, L. I.

O strukture [illegible] [illegible] [illegible] **Luzov, A. A.** and **Mamrukova, V. P.**), 21.[illegible]

[illegible] ponent of cosmic rays according to IQSY period data] (*with* **Rogava, G.** and **Shatashvili, L. Kh.**), 21.9–[illegible]

[illegible] kikh luchei ot maksimuma do minimu [illegible] iations of cosmic rays from the [illegible] (*with* **Kolomeets, E. V.**), 21.[illegible]

[illegible] structure of magnetic heterogenei tions from the Sun according to data on recurrent disturbances in c mic radiation and magnetic acti (*with others*). 21.12–458

Uskorenie kosmicheskikh luchei [illegible] solnechnogo vetra [Cosmic ray

[illegible] of corpuscular streams and the [illegible] of solar wind, [illegible]
[illegible]
[illegible]
[illegible] Bailey, A. V., [illegible]
[illegible]
[illegible] Centre de Physique du Globe
[illegible]
[illegible] P., see Dogliani?, R., [illegible]

Dean, V. J.
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
Drake, F. G.
Radio observation of the solar eclipse of [illegible]
Drake, George M., see [illegible]
Drake, J. C.
[illegible]
Drake, Jerry F., Jr.
[illegible] (with Gibson, J. and Van Allen, J. A.), [illegible]
Drake, R. L.
Similarity approximation for the radial [illegible]
[illegible]
[illegible] (with Young, C.), [illegible]
[illegible]

water balance elements over the U.S.S.R.], 21.11–356

Dremliug, V. V.

Ispol'zovanie sudovogo radiolokatora dlia opredeleniia elementov morskogo volneniia [The use of the shipborne radar for the determination of the sea wave parameters] [and English transl.], 21.6–837

Dresch, Jean

Hydrologie: mélanges offerts à Maurice Pardé [Hydrology: collection of papers in honor of Maurice Pardé] (*with others*) (eds.), 21.9–556

Dřevikovský, Antonin

Ekonomický význam meteorologických služeb [Economic benefits from meteorological services], 21.5–8

Dreyer, N. N.

Water resources of major economic regions of the RSFSR and the other Union Republics, 21.10–677

Driatskiĭ, V. M.

Dvizhenie avroral'nogo pogloshcheniia vdol' zony poliarnykh siianii [Movement of auroral absorption along the aurora zone], 21.10–506

Poludennoe vosstanovlenie pogloshçheniia tipa poliarnoi shapki [Midday restoration of polar cap type absorption], 21.12–295

Drobyshevich, V. I.

Sviaz' statisticheskikh kharakteristik poleĭ oblachnosti i ukhodiashcheĭ korotkovolnovoĭ radiatsii [Relationship of the statistical characteristics of cloud fields to outgoing short-wave radiation], 21.1–464

Drobzhev, V. I.

Opredelenie vertiakl'noĭ sostavliaiushcheĭ skorosti dreĭfa i koeffitsienta rekombinatsii F oblasti ionosfery [A definition of a vertical component of a drift speed and the recombination coefficient of the ionosphere F–region] (*with* **Rudina, M. P.** and **Solonitsyna, N. F.**) [and English transl.], 21.5–343

Drogaĭtsev, D. A.

Impul'sy geopotentsiala v noiabre kak indikatory ianvarskoĭ temperatury vozdukha [Geopotential pulses in November as indicators of January air temperature], 21.3–278

Droppleman, J. D.

Apparent microwave emissivity of sea foam, 21.10–533

Drouin, Marc

Meteorological variables influencing
thermal thrust of an extending ice
21.11–309

Drozd, N. I.

Osobennosti formirovaniia minimal'
stoka rek v Dnestrovskom karst
raĭone [Peculiarities in minimal
runoff formation in the Dniester
region] (*with* **Lysenko, K. A.**),
581

See also **Ivanov, B. N.**, 21.11–709

Drozd, V. V.

Otsenka podzemnoĭ sostavliaiushcheĭ
nogo stoka v polovod'e po gidrok
icheskim dannym [Estimate of
underground river runoff comp
during flood from hydrochemical i
mation], 21.4–582

Subsurface feeding of rivers in the N
Basin, 21.10–744

Drozdov, O. A.

Ismenchivye solnechno-troposfernye
i metody ustanovlennia ikh nadezh
[Variable solar-tropospheric connec
and a method for establishing thei
liability] (*with* **Loginov, V. F.**
Pokrovskaia, T. V.), 21.9–411

Izuchenie kolebaniy klimata [Study
climatic fluctuations], 21.9–21R

O proiavlenii tsiklichnosti v khode
ichestva atmosfernykh osadkov na
ritorii SSSR [Periodicity in the v
tion of atmospheric precipitation
the territory of the U.S.S.R.] (
Grigor'eva, A. S.), 21.7–611

Tsiklicheskie sostavliaiuschchie v mn
etnikh kharakteristikakh atmosf
tsirkuliatsii [Cyclic components in
long-term characteristics of the a
spheric circulation] (*with* **Grigor**
A. S.), 21.7–262

Vklad tsikluchnosti v kolebaniia riad
kolichestvu atmosfernykh osa
tsirkuliatsionnykh kharakteristik i
nitnoĭ aktivnosti i nadezhnost' ee
deleniia [Contribution of periodicit
variations of series of the amoun
atmospheric precipitation, circul
characteristics and magnetic activity
the accuracy] (*with others*), 21.4–91

Vlagooborot, v atmosfere [Moisture
of the atmosphere], 21.9–22R

See also **Davitaia, F. F.**, 21.11–464

Drozdovskaia, P. P., *see* **Kagan, R.**
21.10–22R

ummond, A. J., *see* **Karoli, A. R.,** 21.8–35

yer, Murray
olar wind interactions: hypersonic analogue, 21.12–429

band, D., *see* **Guillot, P.,** 21.9–596

bbe, Everette C., *see* **Moulton, L. K.,** 1.2–193

binina, V. G.
) termicheskom rezhime prudov [The thermal regime of ponds], 21.5–494

blianskii, V. N.
idrologo-gidrogeologicheskaia izuchennost' Gornogo Kryma i nekotorye aspekty vodnobalansovykh raschetov v karstovykh oblastiakh [Hydrological and hydrogeological studies of the Crimean mountains and some aspects of water balance calculations in karst regions], 21.8–450

bosclard, G., *see* **Donnadieu, G.,** 21.3–55

bov, A. S.
umerical weather forecasting, (*with* **Iudin, M. I.**), 21.9–23R

ov, E.
tructure of the lower solar chromosphere in undisturbed and active regions, 21.2–498

preuil, P.
onceptions nouvelles en matière de mesures limnimétriques sur les cours d'eau [A new approach to river state measurement] (*with* **Hlavek, R.**), 21.7–808
ature et répartition des stations hydrométriques de réseaux en France, au début de 1968 [Nature and distribution of hydrometric stations network in France at the beginning of 1968], 21.11–94R

rovskaia, F. I.
aksimal'no razovaia kontsentratsiia kapronovoĭ kisloty v atmosfernom vozdukhe [The maximum one-time concentration of kapronic acid in the atmosphere] [and English transl.], 21.5–244
ovye dannye o zagriaznenii atmosfernogo vozdukha vybrosami proizvodstva zhirozameniteleĭ [New data on atmospheric pollution with discharges from the production of fat substitutes] (*with* **Abramova, Iu. V.**), 21.1–291

e, Robert A.
n the source of gaseous chlorine in the marine atmosphere, 21.5–222

Duchon, Claude E.
Error variance analysis of meteorological data from the ESSA-RFF DC-6's, 21.11–65

Duckstein, Lucien, *see* **Fogel, M. M.,** 21.7–615

Düing, Walter
Hydrographische Beobachtungen im Arabischen Meer während der Zeit des Nordostmonsuns 1964/65 [Hydrographic observations in the Arabian Sea during the NE-monsoon period 1964/65] (*with* **Koske, P. H.**), 21.5–512
Die Monsunströmungen im Indischen Ozean [The monsoon air streams over the Indian Ocean], 21.4–704
Die Vertikalzirkulation in den küstennahen Gewässern des Arabischen Meeres während der Zeit des Nordostmonsuns [Vertical field of motion at the margins of the Arabian Sea during the NE-monsoon], 21.2–746

Dütsch, H. U.
Atmospheric ozone—a short review, 21.12–286
Atmospheric ozone and ultraviolet radiation, 21.8–133
Critical comparison of the determination of vertical ozone distribution by the Umkehr method and by the electrochemical sonde (*with* **Ling, Ch.**), 21.7–166
Meridional ozone transport by transient eddies over Boulder, Colorado (*with* **Favarger, D.**), 21.5–325
1½ years of routine observations of vertical ozone distribution near Zürich, Switzerland (*with* **Zuellig,** — and **Ling, Ch.**), 21.7–167
Photochemistry of stratospheric ozone, 21.1–324
Simultaneous Umkehr observations with two instruments (*with* **Boller, P.** and **Ling, Ch.**), 21.7–168

Duff, Harvey W.
Rain-gauging program to provide guide to storm sewer design (*with* **Tobey, R. L.** and **Hsieh, C. C.**), 21.7–584

Duffus, H. J., *see* **Boyd, G. M.,** 21.11–171

Duffy, D., *see* **Scott, W. D.,** 21.1–319

Dufour, L.
Gouttes atmosphériques [Atmospheric raindrops], 21.9–284
Voltaire et les thermomètres [Voltaire and thermometers], 21.5–110

Dufour, S. W., *see* **Colin, L.,** 21.10–160

Dufresne, R.
Intensité des précipitations à Fort-de-France (Martinique) [Intensity of precipitation at Fort-de-France, Martinique], 21.10–389

Dufu, S., *see* **Matthews, P. A.,** 21.9–141

Duggal, Shakti P., *see* **Jacklyn, R. M.,** 21.8–306; **Pomerantz, M. A.,** 21.7–418

Duguzhev, Kh. I., *see* **Steblova, R. S.,** 21.11–319

Dulk, George A.
Characteristics of Jupiter's decametric radio source measured with arc-second resolution, 21.10–585
See also **Warwick, J. W.,** 21.7–749

Dul'kin, N. G.
O tochnosti usovershenstvovannoĭ sistemy radiolokatsionnogo soprovozhdeniia meteorologicheskikh raket [Accuracy of an improved radar tracking system for meteorological rockets] (*with* **Livshits, N. S.**), 21.11–71

Dul'kin, V. N.
Chastnye resheniia uravneniia prilivov Laplasa [Partial solutions of the Laplace tidal equation] *with* **Zhantuarov, R. S.** and **Semenovskiĭ, Iu. V.**), 21.4–760

Dumas, André J.
Statistical discrimination of change in daily runoff (*with* **Morel-Seytoux, H. J.**), 21.6–624

Dumont, S.
On the interpretation of the center-limb observations of Ca II emission cores, 21.12–631

Dunaway, Gordon L.
Wind-weighting technique to predict velocity vector azimuth angles for unguided rockets, 21.12–65

Duncan, R. A.
Neutral winds and universal-time control of the polar F-region, 21.9–155

Dunford, E.
Lunar variations in the F2-region of the ionosphere at low latitudes (*with* **Lawden, M. D.**), 21.3–374

Dungey, J. W.
Aurora: interplanetary magnetic field and the initiation of auroral displays, 21.11–531
Damping of waves in the current sheet in the geomagnetic tail by radiation, 21.10–494

Dunin, F. X.
Changes in water balance components
pasture management in southea
Australia, 21.10–352
Model for rainfall routing during in
abstraction, 21.6–594

Dunkelman, L., *see* **Evans, D. C.,** 21.1–

**Dunlap and Associates, Inc., Santa M
ica, Calif.**
Proposal for a feasibility study of th
of auditory presentation of weather
dar video for storm identification
the indirect estimation of wind vel
and turbulence in clouds and st
21.1–196

Dunn, Bernard
Nomographs for determining amoun
rhodamine B dye for time-of-t
studies, 21.11–721

Dunskiĭ, V. F.
O raschete rasseianiia osedaiushcheĭ
mesi ot lineĭnogo istochnika v pog
chnom sloe atmosfery [Calculatio
dispersal of precipitating contam
from a linear source in the boun
layer of the atmosphere] (*with*
diurova, I. S. and **Onikul, R.**
21.9–21R
Osedanie aerozolia, vvodimogo v a
sferu v vide vertikal'noĭ turbulen
strui [Settling of an aerosol introd
into the atmosphere in the form
vertical turbulent current], 21.9–25

Dunst, Martin
Über Experimente in einem Flüssigk
modell zum "Hurrikan" problem
perimentation with a liquid "hurric
model], 21.5–415

Duplessy, J. C.
Continental climatic variations bet
130,000 and 90,000 years BP, 21.1

Duprat, A., *see* **Ungemach, P.,** 21.1–7

Dupriez, G. L.
Température du sol en région equato
africaine [Temperature of the so
the equatorial region of Africa],
327
See also **Bultot, F.,** 21.12–48

Durasova, M. S.
Kvaziperiodicheskie izmeneniia inte
nosti radioizlucheniia Solntsa na
3.3 cm [Quasi-periodic intensity
ations of radio emission from the
at 3.3 cm wavelength] (*with oth*
[and English transl.], 21.4–443

Durrant, E. F.
Factors governing the growth of hydrometric networks, 21.8–778

Dury, G. H.
Relation of morphometry to runoff frequency, 21.1–800

Dutton, Evan J., *see* **Decker, Martin T.**, 21.10–91R

Dutton, John A.
Clear air turbulence: a mystery may be unfolding (*with* **Panofsky, H. A.**), 21.9–257
Intermittency of small-scale structure, 21.11–42
Self-similar view of atmospheric turbulence (*with* **Deaven, Dennis G.**), 21.10–227

Duvergé, P.
Turbulence en air clair [Clear air turbulence], 21.4–197

Dvinskikh, N. I.
O razlozhenii sutochnogo khoda foF2 na estestvennye nekorrelirovannye sostavliaiuschchie [Dividing of a daily cycle of foF2 into natural noncorrelative components] (*with* **Naĭdenova, N. Ia.**), 21.9–156

Dvořáková, Alice
Průměrne hodnoty meteorologickych prvků z observatoře Praha-Karlov za obdobi 1931–1960 [The averages of meteorological parameters measured at the Prague-Karlov Observatory in the period 1931–1960], 21.8–514

Dvoskin, M. V., *see* **Rakitina, A. P.**, 21.11–704

Dyck, Siegfried
Probleme und Methoden der Systemhydrologie, 21.10–740

Dycus, R. D.
Rainfall and the meteoroid influx to Earth (*with* **Martin, C. D.**), 21.1–603

Dyer, A. J.
Global spread of volcanic dust from the Bali eruption of 1963 (*with* **Hicks, B. B.**), 21.1–292

Dyer, R., *see* **Falcone, V. J., Jr.**, 21.10–570

Dyer, Rosemary M.
Persistence in snowfall intensities measured at the ground, 21.6–616

Dyer, T. G. J.
Monthly frequencies of wet and dry weeks over England and Wales, 21.10–386

yes, William A., *see* **Ward, J. H.**, 21.1–190

Dymnikov, V. P.
O nekotorykh osobennostiakh chislennogo resheniia uravnenii perenosa vlazhnosti v atmosfere [Some features of the numerical solution of humidity transfer equations in the atmosphere] [and English transl.], 21.3–639

Dynowska, Irena
Zarys stosunków wodnych powiatu chrzanowskiego [Outline of hydrological conditions in Chrzanów country] (*with* **Dynowski, J.**), 21.9–557

Dynowski, Jerzy, *see* **Dynowska, I.**, 21.9–557

Dyson, P. L., *see* **Herzberg, L.**, 21.7–186

Dzerdzeevskiĭ, Boris L.
Klimaprognose aufgrund der atmosphärischen Zirkulation [Climatic prediction on the basis of the atmospheric circulation], 21.5–664
Tsirkuliatsionnye mekhanizmy v atmosfere severnogo polushariia v XX stoletii [Circulation mechanisms in the atmosphere of the Northern Hemisphere in the 20th Century], 21.1–378
Vsesoiuznaia konferentsiia po obshcheĭ tsirkuliatsii atmosfery, 25–29 noiabria 1968 g., Tsilisi [All-Union Conference on the General Circulation of the Atmosphere, November 25–29, 1968, Tiflis] [and English transl.], 21.2–89

Dzholov, G. D.
Razlagane na reditsi ot khidrologichni i meteorologichni poleta po estestveni ortogonalni sŭstaviashti [Decomposing of rows of hydrologic and meteorologic fields by natural orthogonal composites] (*with* **Sirakov, D. E.**), 21.4–508
See also **Sirakov, D. E.**, 21.5–31

Dzhordzhio, N. V.
Kontsentratsii molekuliarnykh ionov po izmereniiam na sputnike "Kosmos-5" [Concentration of molecular ions according to the measurements, made by the satellite "Cosmos-5"] (*with* **Fedorova, N. I.**) [and English transl.], 21.5–344

Dzhuraev, A. D.
Aktivnye vozdeistviia na pereokhlazhdennye oblaka v gorakh Srednei Azii [Seeding of supercooled clouds in the mountains of Central Asia] (*with* **Ushintseva, V. F.**), 21.9–112
See also **Abdumalikov, T. I.**, 21.9–335

Dziewulska-Łosiowa, Aniela
Ozone changes related to the macrosynoptic situation in the middle stratosphere, 21.5–324
Dziubenko, E. V.
K voprosu o kolichestvennom analize infrakrasnoĭ informatsii ISZ [Quantitative analysis of infrared information from satellites] (*with* **Puckhov, V. V.**), 21.3–202
Dziubenko, N. I.
Izmenenie sredneĭ dliny lucheĭ poliarnykh siianiĭ v techenie nochi (b. Tiksi) [A variation of the mean length of aurora rays during a night (Tiksi Bay)], 21.11–513
Dziubenko, T. D.
Opredelenie polozheniia osi struĭnogo techeniia po dannym ob oblachnosti s meteorologicheskogo sputnika [Determining the location of the axis of a jet stream from cloudiness data obtained from meteorological satellites] (*with* **Tsar'kova, A. M.**), 21.2–93

E

EASTROPAC Colloquium, La Jolla, Calif., June 9, 1969
[Papers], 21.4–630
EG&G, Inc., Boulder, Colo.
Airborne measurements of atmospheric anomalies, 21.12–08
Park Range Atmospheric Water Resources Program, 21.9–113
ESRIN–ESLAB Symposium, 2nd, Frascati, Italy, Sept. 23–27, 1968
Low-frequency waves and irregularities in the ionosphere: Proceedings of the Symposium, 21.9–159
ESSA [Wash., D. C.]
Go fly a kite, 21.10–68
Weather forecast center USA—1888–1969, 21.8–11
ESSA News [Rockville, Md.]
BOMEX finds new temperature–humidity relationship, 21.2–771
Camille batters U. S. mainland; Stormfury seeds Hurricane Debbie, 21.3–460
1969 hurricane season opens, 21.1–403
Secretaries Stans and Chafee report on Project Stormfury, 21.5–210
Weather satellites play key role in BOMEX project, 21.1–160
ESSA World [Rockville, Md.]
Ahead of a killer, 21.7–287
Adrift on Arctic seas, 21.6–820
BOMEX study of air–sea interaction
begin in May, 21.2–772
Eadie, William J.
Computer simulation of fog seeding e
periments, 21.5–194
Eagleson, Peter S.
Potential of physical models for achievi
better understanding and evaluation
watershed changes, 21.10–683
Earl, John L., *see* **Chow, T. J.**, 21.5–240
Earnshaw, J. C.
Muons in large extensive air showe
(*with* **Orford, K. J.** and **Turver,**
E.), 21.7–404
East African Community, Nairobi. Me
Dept.
Annual Report 1967/1968, 21.11–42R
Proceedings of the 4th Specialist Me
ing on Applied Meteorology in Ea
Africa, University College, Nairo
Kenya, Nov. 26–27, 1968, 21.9–5
Weather of East Africa during 19
21.3–105
East, Conrad
Pollution de l'air: mythe ou vérité [A
pollution: myth or fact], 21.12–24R
Pollution atmosphérique et île de chale
[Atmospheric pollution and the he
island], 21.5–245
Eastern Snow Conference, 26th, Portlan
Maine
Proceedings [1969], 21.10–398
Eather, R. H.
Characteristics of polar cap auroras (*wi*
Akasofu, S.-I.), 21.9–444
Latitudinal distribution of auroral a
airglow emissions, 21.7–350
Short-period auroral pulsations in λ 63
O I, 21.11–514
See also **Akasofu, S. I.**, 21.11–510
Eaton, Larry R.
Experiments on droplets in free fall, Pt.
Terminal velocity and wall effects (*wi*
Hoffer, T. E.), 21.11–367
Ebel, A.
Verfahren zur Auswertung von Beobac
ungen des Faraday-Effektes der Io
sphäre an Radiosignalen künstlich
Erdsatelliten [Method of computing
servations of the Faraday effect of t
ionosphere through radio signals fr
artificial Earth satellites], 21.11–183
Eberstein, I. J.
Infrared transmission properties of C
HCI, and SO_2 and their significance f
the greenhouse effect on Venus (*wi*

- **Khare, B. N.** and **Pollack, J. B.**), 21.8–734
- **bert, Janet,** *see* **Hornberger, George M.,** 21.12–684
- **cklund, W. L.,** *see* **Lerfald, G. M.,** 21.1–678; **Shepherd, D. C.,** 21.2–372
- **ckoldt, Martin,** *see* **Neubert, Hermann,** 21.9–151R
- **ckstein, Y.,** *see* **Rosenthal, E.,** 21.1–766
- **ddy, Amos**
  - Meteorologically oriented computer model of an ecosystem, 21.3–14
- **ddy, J. A.**
  - Far infrared measurement of the solar minimum temperature (*with* **Lena, Pierre J.** and **MacQueen, Robert M.**), 21.8–751
  - Far infrared transmission of the upper atmosphere (*with* **Léna, P. J.** and **MacQueen, R. M.**), 21.4–138
  - Infrared scattering observations in the upper atmosphere (*with* **MacQueen, R. M.**), 21.3–510
- **ddy, Richard L.,** *see* **Kahan, A. M.,** 21.1–268; 21.8–126
- **den, H. F.,** *see* **Horne, R. A.,** 21.1–559
- **dwards, G. R.**
  - Nucleation of ice by mechanical shock (*with* **Evans, L. F.** and **Hamann, S. D.**), 21.7–543
- **dwards, P. J.**
  - Ionospheric effect caused by celestial X-rays (*with* **Burtt, G. J.** and **Knox, F.**), 21.10–163
- **esti NSV Teaduste Akadeemia. Füüsika ja Astronoomia Inst.,** *see* **Mezhvedomstvennoe Soveshchanie po Aktinometrii i Optike Atmosfery, 6th, Tartu, June 13–18, 1966,** 21.1–29
- **fanov, V. A.**
  - Comparison of 8-mm solar radio features with local magnetic fields and chromospheric features (with **Moiseev, I.** and **Severnyĭ, A. B.**), 21.4–444
  - Observation of solar radio emission by the 22-m radiotelescope at the Crimean Astrophysical Observatory at 2.25 mm and 8.15 mm wavelengths (*with others*), 21.4–445
- **fimov, A. V.**
  - Osobo opasnye gidrometeorologicheskie iavleniia na Kuĭbyshevskom vodokhranilishche i v raĭone Volzhskoĭ GES im. V. I. Lenina [Particularly dangerous hydrometeorological phenomena at the Kuibyshev reservoir and in the area of the V. I. Lenin Hydroelectric Station on the Volga], 21.9–336
- **Efimov, G. M.,** *see* **Gornostaev, N. V.,** 21.1–198
- **Efimov, M. K.**
  - Bor'ba s lavinami v Zapadnom Tian'-Shane [Fight with avalanches in Western Tyan Shan], 21.11–405
  - *See also* **Moskalev, Iu. D.,** 21.11–394
- **Efimov, V. A.**
  - Spektral'naia forma uravneniĭ dinamiki atmosfery dlia sistemy obobshchennykh sfericheskikh funktsiĭ [A spectral form of the equations of atmospheric dynamics for the system of generalized spherical functions], 21.5–371
- **Efimov, V. V.**
  - Eksperimental'noe issledovanie polia skorosti vetra nad volnami [Experimental research of the wind velocity field over waves] (*with* **Sizov, A. A.**) [and English transl.], 21.6–496
  - Nekotorye osobennosti polia skorosti v sloe vetrovogo velneniia [Some particular features of velocity field in the wind waves layer] (*with* **Khristofovor, G. N.**), 21.9–739
- **Efremova, N. D.**
  - Opyt primeneniia razlozheniia meteorologicheskikh poleĭ po polinomam Chebysheva dlia prognoza vskrytiia rek [Experience in the use of the development of meteorological fields into Chebyshev polynomials for the prognosis of river freezing], 21.6–618
- **Eftimescu, Maria,** *see* **Gogorici, E.,** 21.10–460
- **Egeland, A.,** *see* **Holtet, J.,** 21.10–535
- **Egger, Josef**
  - Barokline Instabilität in Abhängigkeit vom Windprofil der Grundströmung [Baroclinic instability as a function of the velocity profile of the basic current], 21.5–395
  - Entwicklung von Zyklonenwellen bei einem langwelligen, stationären Grundzustand [The development of cyclone waves at a stationary, long-wave basic state], 21.6–320
  - Uber den Zusammenhang zwischen konvergenzschranke und Abweichung von der exakten Lösung bei der Relaxation von Poisson-und Helmholtz-Gleichung [Relation between the convergence boundary and the deviation from the exact solution in the relaxation of the

Poisson and Helmholtz equations], 21.12–128
Eggleton, A. E. J.
Chemical composition of atmospheric aerosols on Tees-side and its relation to visibility, 21.5–246
Egiazarov, I. V.
Computation of maximum storm discharge of mountain rivers (*with* **Tsovian, M. V.**), 21.9–594
Egidi, A.
Measurement of the solar wind direction with the IMP-1 satellite (*with* **Pizzella, G.** and **Signorini, C.**), 21.2–135
Egorov, S. T., *see* **Basharinov, A. E.**, 21.12–69
Egorova, A. Iu.
Nekotorye zakonomernosti raspredeleniia Kharakteristik osadkov v raĭone Filippinskogo arkhipelaga [Some relationships in the distribution of characteristics of precipitation in the region of the Philippines], 21.7–597
Egorova, I. R.
Nekotorye osobennosti atmosfernykh frontov v iuzhnom polusharii po dannym nabliudeniĭ so sputnikov [Some peculiarities of atmospheric fronts in the Southern Hemisphere according to satellite observation data], 21.2–104
Ehhart, Dieter H.
Deuterium in Hurricane Faith 1966: preliminary results (*with* **Ostlund, H. G.**), 21.12–381
On the deuterium–salinity relationship in the Baltic Sea, 21.4–679
Ehlers, Eckart
Das Chalus-Tal und seine Terrassen: Studien zur Landschaftsgliederung und Landschaftsgeschichte des mittleren Elburs (Nordiran) [The Chalus Valley and its terraces: studies in the history and regionalization of the central Elburz (North Iran)], 21.10–452
Ehlers, R. W., *see* **Boye, H.**, 21.6–132
Ehrhardt, Manfred
New method for the automatic measurement of dissolved organic carbon in sea water, 21.4–690
Ehrler, W. L.
Daytime stomatal closure in *Agave americana* as related to enhanced water-use efficiency, 21.1–553
Ehrlich, Eugene
Future potentials of navigation satellites, 21.2–395
Eiben, Klaus
Irradiation-produced solvated electrons
ice, 21.6–803
Eichmeier, J.
Über den Einfluss elektromagnetisc
strahlung auf die Wismutchlorid-F
ungsreaktior mach Piccardi [Influence
electromagnetic rays on the Picca
test] (*with* **Büger, P.**), 21.11–280
Einarsson, Markús Á.
Global radiation in Iceland, 21.5–438
Einaudi, F.
Higher order approximations in the t
ory of acoustic–gravity waves, 21.5–
Eipre, T. F.
Kharakteristika rechnogo i rodnikov
stoka v karstovykh raionakh Esto
[The characteristics of river and
runoff in karst regions of Estoni
21.11–729
Eisentraut, Martin
Eiszeitklima und heutige Tierverbreitu
im tropischen Westafrika [General
mate and the present distribution
animals in West Africa], 21.11–457
Eisler, Thomas J.
Asymptotic solutions of the viscous so
wind equations, 21.2–136
Convergent solution of the inviscid so
wind equations, 21.2–137
Eisner, H., *see* **Ambach, W.**, 21.8–424
Elagina, L. G.
O sviazi chastotnykh spektrov pul'sat
vlazhnosti s potokami vlagi [Relatio
ship between frequency of humidity flu
tuations and moisture fluxes], 21.8–3
Ob izmereniiakh turbulentnykh potok
vlagi s pomoshch'iu infrakrasnogo
grometra [Measurement of turbul
moisture flows by means of an infrar
hygrometer] (*with* **Gorshkov, V.**
and **Mironenko, E. T.**), 21.10–20
Elamly, A. M.
WMO technical activities in Africa, 22.1
7
Elbashan, D.
Estimation of strong winds in Israel:
guide, 21.11–343
Monthly data of highest wind speed at L
Airport, 21.11–340
Elbaz, C.
Introduction à la physique du milieu sp
tial [Introduction to the physics of spac
environment], 21.6–687

El Boushi, Ismail M.
Water-retention characteristics of coarse rock particles (*with* **Davis, S. N.**), 21.10–730
Elco, Richard A.
Interaction of the solar wind with planetary atmospheres, 21.6–405
Elder, Rex A.
Evaluation of Fontana Reservoir field measurements (*with* **Wunderlich, W. O.**), 21.4–593
See also **Wunderlich, W. O.**, 21.5–770
Elder, Robert B., *see* **Hufford, G. L.**, 21.4–644
Elderkin, Charles E.
Measurements of dispersion from a continuous elevated point source in an unstable atmosphere (*with* **Hinds, W. T.**), 21.12–361
Measurements of turbulence in the lower atmosphere, 21.1–484
Eldridge, Ralph G.
Mist: the transition from haze to fog, 21.3–648
Elefterion, A., *see* **Chauzy, S.**, 21.3–389
Elena, Antonio, *see* **Bossolasco, Mario**, 21.7–721
Elford, W. G.
Meteor shower mass distribution from radar echo counts, 21.11–614
Eliasberg, A. Ia.
Ustanovka dlia distantsionnogo izmereniia temperatury morskoĭ vody [A device for remote temperature measurements of water], 21.5–789
See also **Gershenzon, G. S.**, 21.10–70
Eliasen, Erik
On the observed large-scale atmospheric wave motions (*with* **Machenhauer, B.**), 21.5–396
Eliassen, Arnt
On meso-scale mountain waves of small amplitude, 21.5–536
Eliseev, A. A.
O priblizhennom modelirovanii pogloshchatel'nykh svoĭstv vozdukha v dlinnovolnovoĭ oblasti razlichnymi materialami [Approximate models for the absorptive properties of air in the long wave region by use of different materials], 21.6–71
Elkins, Terence J.
Measurement and interpretation of power spectrums of ionospheric scintillation at a sub-auroral location (*with* **Papagiannis, M. D.**), 21.11–184
Observations of traveling ionospheric disturbances using stationary satellites (*with* **Slack, F. F.**), 21.9–157
Summary of properties of F-region irregularities, 21.10–164
Elliott, David D., *see* **Carter, V. L.**, 21.4–36
Elliott, Robert D.
Computer determination of cloud seeding area of effect, 21.11–144
See also **Hovind, E. L.**, 21.1–241; **Shaffer, R. W.**, 21.12–198
Ellis, G. R. A.
Fine structure in the spectra of solar radio bursts, 21.4–446
Ellis, Michael J.
Basic hydrologic data, for a part of the Big Sioux Drainage Basin, Eastern South Dakota (*with* **Adolphson, Donald G.**), 21.1–767
Ellison, M. A.
Sun and its influence: an introduction to the study of solar-terrestrial relations, 21.12–575
Ellsaesser, Hugh W.
Climatology of epsilon (atmospheric dissipation), 21.3–424
Wind variability as a function of time, 21.3–604
Ellsworth, Edward
Note on the feasibility of glass culture tubes as disposable cuvettes in colorimetric determination of ozone and nitrogen dioxide, 21.10–88
Ellyett, C. D.
Radio noise of auroral origin, 21.2–380
El'mesov, A. M., *see* **Kumykov, Kh. K.**, 21.9–330
Elnesr, M. K.
Theory of solar stills and its experimental verification under actual atmospheric conditions (*with* **Soliman, S. H.**), 21.3–495
Elrick, D. E.
Dispersion and reaction in unsaturated soils applications to tracers, 21.1–651
Elsässer, H.
Erforschung des interplanetaren Staubes durch astronomische Beobachtungen des Zodiakallichtes und mittels Weltraumsonden [Investigation of interplanetary dust by means of astronomical observations of zodiacal light and cosmic probes], 21.2–416
Else, C. V.
Improved solid state amplifier for the Dobson ozone spectrophotometer (*with*

Powell, D. B. B. and **Simmons, E. L.**), 21.6–115

Elterman, L.
Features of tropospheric and stratospheric dust (*with* **Wexler, R.** and **Chang, D. T.**), 21.3–344

El-Tom, Mahdi Amin
Statistical analysis of the rainfall over the Sudan, 21.6–595

Elwert, G.
Significance of the polarization of solar short-wavelength X-rays, 21.3–526

Emel'ianenko, S. N., *see* **Khorosheva, O. V.,** 21.11–542

Emel'ianov, Iu. N.
Opyt izucheniia lavin v basseĭne r. Pskem [Experience in the study of avalanches in the basin of the river Pskem] (*with others*), 21.11–406
See also **Runich, A. V.,** 21.11–409

Emel'ianova, L. P., *see* **Prosekina, G. M.,** 21.9–245

Emery, K. O.
Coastal pond studied by oceanographic methods, 21.9–750

Emery, R. J., *see* **Birch, J. R.,** 21.3–638

Emets, V. P., *see* **Vershinin, A. P.,** 21.5–435

Emiliani, C.
Interglacial high sea levels and the control of Greenland ice by the precession of the equinoxes, 21.9–679
Pleistocene paleotemperatures, 21.12–441

Emil'ianov, Iu. M.
Zagadka "Sibirskoĭ t'my" [Enigma of the "Siberian darkening"], 21.10–13R

Emin, P., *see* **Baskerville, G. L.,** 21.5–380

Emm, Z. G.
Izmenchivost' vysoty nizhnei granitsy oblakov vo vremeni v Tashkents [Temporal variations in the altitude of the lower cloud boundary in Tashkent], 21.9–299

Emmanuel, C. B., *see* **Bean, B. R.,** 21.12–319

Encrenaz, Thérèse, *see* **Hogan, J. S.,** 21.6–710

Endlich, R. M.
Spectral analysis of detailed vertical wind speed profiles (*with* **Singleton, R. C.** and **Kaufman, J. W.**), 21.3–616
See also **Mancuso, R. L.,** 21.3–69; 21.4–199, 21.5–153; **Viezee, W.,** 21.2–38

Endô, Yasoichi, *see* **Wakahama, G.,** 21.9–342

Engelbert, Ernest A.
Regional planning for water development in the western United States: the relevance of American experience for other nations, 21.11–694

Engelhardt, Herman (ed.), *see* **International Symposium on Physics of Ice, Munich, Germany, 1968,** 21.7–820

Engelmann, Gerhard
Alexander von Humboldts Abhandlung über die Meeresströmungen [Alexander von Humboldt's treatise on ocean currents], 21.8–846

Enger, Isadore, *see* **Reilly, A. E.,** 21.10–6[illegible]0

England, C. B., *see* **Stephenson, G. R.,** 21.8–795

Engvold, O.
Diatomic molecules BH, BN, and BO in sunspots and the solar abundance of boron, 21.11–625
On the position of sunspots in the core of Hα relative to the continuum, 21.12–621
Spectroscopic study of the Hα profile of moustaches, (*with* **Maltby, P.**), 21.1–699

Enoshima, K., *see* **Nomoto, S.,** 21.3–262

Enslin, J. F.
Assessment and possible future use of the dolomitic groundwater resources of the Far West Rand, Transvaal, Republic of South Africa (*with* **Kriel, J. P.**), 21.9–624
See also **Kriel, J. P.,** 21.11–95R

Entrekin, Herbert D.
Evaluation of the Atlantic City mesonet for short range prediction of aviation terminal weather (*with* **Wilson, J. W.** and **Hage, K. D.**), 21.3–288

Environmental Science and Technology [Wash., D. C.]
Air cushion vehicle thwarts barrier to winter water data, 21.2–527
Air quality criteria, 21.5–233
Executives join clean water fight, 21.8–696
Firms pool anti-pollution efforts, 21.8–695
Hurricane seedings appear encouraging, 21.8–118
New procedure checks vehicle exhaust emissions, 21.5–276
Pollution Control Directory, 1969–1970, 21.8–137
Rx for ailing lakes: a low phosphate diet, 21.8–697
State officials speak out on air quality standards, 21.9–128

Urban runoff adds to water pollution, 21.4–413

Warm fog dispersal passes airport tests, 21.3–305

Enz, John W., *see* **Baker, D. G.**, 21.4–169

Epifani, Roberto

Sul piu' grande dei valori massimi annuali della precipitazione oraria e giornaliera da aspettarsi in cento anni nel bacino dell' Arno [The greatest annual maximum values of hourly and daily precipitation that might occur in the next 100 years in the Arno Basin] (*with* **Sorani, Roberto** and **Todaro, Cosimo**), 21.7–614

Epifanov, V. F.

Opredelenie sredneĭ temperatury i teplozapasov vody Gor'kovskogo vodokhrani liascha [Determination of the average temperature and heat reserves of the waters of the Gorki Reservoir] (*with* **Loginova, N. N.**), 21.6–793

Epstein, Edward S.

Scoring system for probability forecasts of ranked categories, 21.8–111

Stochastic dynamic prediction, 21.2–129

See also **Drayson, S. R.**, 21.6–346

Erickson, Jon D.

Review of active remote sensing of the atmosphere with ground-based laser radar, 21.11–26

Erickson, W. C.

Progress in radio and radar astronomy, 21.4–437

Ericson, David B.

Pleistocene climates in the Atlantic and Pacific Oceans: a comparison based on deep-sea sediments (*with* **Wollin, G.**), 21.10–453

Eriksson, Erik

Chemistry of groundwater (*with* **Khunakasem, V.**), 21.4–554

Groundwater problems (*with* **Gustafsson, Y.** and **Nilsson, I.**) (eds.), 21.4–541

Ermakov, V. I.

O peradache telemetricheskoĭ informatsii s meteorologicheskikh raket [Transmission of telemetric information from meteorological rockets], 21.11–72

Radiotelemetricheskaia liniia sovmeshchennoĭ sistemy dlia meteorologicheskikh raket [Radiotelemetric line in a combined system for meteorological rockets] (*with* **Komotskov, A. V.**), 21.11–73

Ernst, L. F.

Groundwater flow in the Netherlands Delta Area and its influence on the salt balance of the future Lake Zeeland, 21.10–426

Ernst, Werner

Nachweis der Erdgezeiten mit Bodengasen [Demonstration of terrestrial tides on the basis of Earth gases], 21.6–734

Erofeev, N. M., *see* **Galkin, A. I.**, 21.5–346

Erokhin, Iu. G.

Vliianie Amerikanskogo vzryva "Starfish" na sostoianie ionosfery po nabliudeniiam v Tsentral'nom Kazakhstane [The effect of the American explosion "Starfish" on the state of the ionosphere based on observations in Central Kazakhstan] (*with* **Larionenko, O. I.**), 21.9–158

Eroshenko, E. G., *see* **Dolginov, Sh. Sh.**, 21.11–549

Ershkovich, A. I.

Some problems of the Earth's magnetosphere physics (*with* **Skuridin, G. A.** and **Shalimov, V. P.**), 21.8–210

Ershova, N. G.

Vliianie ul'trafioleta na l'doobrazuiushchuiu aktivnost' aerozolia florogliutsina [Ultraviolet radiation effect on the nucleating activity of phloroglucinol aerosol], 21.6–156

Ertel, Hans

Die Beziehung zwischen Reibung und Wind im Gauss-Argand-Diagramm [Relationship between the frictional force and the wind in the Gauss-Argand diagram], 21.5–502

Tagesperiodische Variationen der Wasserführung in Hochgebirgsflüssen [Diurnal variations of water flow volume in high mountain streams], 21.11–427

See also **Cadez, M.**, 21.1–358

Erukhimov, L. M.

O nekotorykh effektakh rasseianiia radiovoln v ionosfere, I [Some effects of radio wave dispersion in the ionosphere, Pt. 1], (*with* **Trakhtengerts, V. Iu.**), 21.12–296

See also **Getmantsev, G. G.**, 21.6–66

Esakova, N. P., *see* **Pokrovskaia, T. V.**, 21.10–40R

Eschner, Arthur R.

Soil moisture priming, soil temperature and water available (*with* **Leonard, R. E.** and **Leaf, A. L.**), 21.10–413

See also **Leonard, R. E.**, 21.3–171

Escowitz, Edward, *see* **Lowrie, A.**, 21.2–699

Escudier, M. P., *see* **Fay, J. A.**, 21.3–597

Eshleman, V. R., *see* **Fjeldbo, G.**, 21.9–498

Esipova, E. N., *see* **Kondrat'ev, K. Ia.**, 21.2–116

Eskin, L. I.

Morskie l'dy Iuzhnogo okeana [Sea ice of the Southern Ocean], 21.4–621

Osobennosti ledovykh usloviĭ v antarkticheskikh vodakh letom 1965 g [Characteristics of the ice conditions in the Antarctic waters during the summer of 1965], 21.8–808

Esmen, N. A., *see* **Stein, F.**, 21.5–288

Espeland, L. R., *see* **Disney, R. T.**, 21.2–409

Espildora, Basilio

Teaching and research programs in hydrology at Faculty of Physical and Mathematical Sciences of the Uiversity of Chile, 21.7–771

Essenwanger, Oskar

Power spectrum, structure function, vertical wind shear, and turbulence in troposphere and stratosphere (*with* **Reiter, E. R.**), 21.4–192

Estoque, M. A.

Flow over a localized heat source (*with* **Bhumralkar, C. M.**), 21.1–355

See also **Fernandez-Partagas, J. J.**, 21.12–366

Ethiopia. Water Resources Dept.

General water conditions of Ethiopia, 21.11–95R

Evanari, M., *see* **Shanan, L.**, 21.4–394

Evans, D. C.

Airglow and star photographs in the daytime from a rocket (*with* **Dunkelman, L.**), 21.1–447

Evans, D. S.

Fine structure in the energy spectrum of low energy auroral electrons, 21.10–507

Evans, G. R.

Condensation nuclei formed in polluted air by ultraviolet radiation whose wavelengths are longer than 2900A (*with* **Roddy, A. F.**), 21.12–512

Evans, J., *see* **Bhandari, N.**, 21.7–221

Evans, J. V.

Detection of conjugate photoelectrons at Millstone Hill (*with* **Gastman, I. J.**), 21.8–173

Seasonal variation of the F1-region ion composition (*with* **Cox, L. P.**), 21.7–180

Evans, John E., *see* **Joki, E. G.**, 21.11–517; **McCormac, B. M.**, 21.5–227; **Meyerett, R. E.**, 21.10–515

Evans, L. F., *see* **Edwards, G. R.**, 21.7–54

Evans, Martha W.

Data from deep moored instrument st tions, 21.9–190R

Evans, W. F. J.

Balloon observations of the temporal var ation of the infrared atmospheric oxyge bands in the airglow (*with* **Llewelly E. J.** and **Jones, V. A.**), 21.5–457

Evans, W. H., *see* **Scott, J. P.**, 21.6–677

Evans, William E.

Remote probing of high cloud cover v satellite-borne lidar, 21.7–576

Evdokimova, N. M., *see* **Kondrat'ev, Ia.**, 21.10–27R

Evenshteĭn, Z. M.

O protivomikrobnoĭ sktivnosti 2.5-o sikhlorida aliuminiia v estestvenno-inf sirovannoĭ rechnoĭ vode [Bacterial a tion of aluminum 2.5-oxychloride naturally contaminated river water [and English transl.], 21.4–579

Everard, Cyril E., *see* **Tuan, Y. F.**, 21.8 511

Everson, Clarence E.

March weather along the March 7, 197 eclipse path from Nantucket to New foundland, 21.8–507

Evesson, D. T.

Tornado occurrences in New South Wale 21.12–386

Evnevich, T. V., *see* **Dmitriev, A. A.**, 21.3 574

Evseev, M. P.

K voprosu prognoza mestopolozhenii tsentrov i evoliutsii baricheskikh ob razovaniĭ na tret'i sutki [Problem forecasting location of centers and evolu tion of pressure formations on the thir day], 21.7–103

Evseev, V. V.

Ledovye usloviia v zalive Alasheeva [T ice conditions in Alasheev Bay], 21.8 809

Evstigneev, V. M.

Ob odnom sposobe kompozitsionnogo po troeniia krivykh obespechennosti mak simal'nogo stoka [Certain mode composition plotting of frequency curve of maximum runoff], 21.9–607

Evteev, B. F., *see* **Imianitov, I. M.**, 21.8 616

Ewald, E.

Development and international importan of Soviet soil science, 21.9–462

ving, J. A.

On the roles of vertical velocity and eddy conductivity in maintaining a thermocline (*with* **Rattray, M., Jr.**), 21.2–747

ome measurements of the directional wave spectrum, 21.2–780

ving, K.

Vater-spout on Kaskawulsh Glacier (*with* **Loomis, S.** and **Lougeay, R.**), 21.10–253

:pédition Antarctique Belgo-Néerlandaise, 1964

tmospheric electricity, King Baudouin Base, June 1964–Feb. 1965, 21.8–598

Meteorology, Base Roi Baudouin, March 1964–Jan. 1965, Vol. 2, 21.2–115

:pédition Antarctique Belgo-Néerlandise, 1964, 1965

Radioactivité atmosphérique [Atmospheric radioactivity], 21.1–337

ee also **Wilgain, S.**, 21.1–337

:pédition Antarctique Belgo-Néerlandaise, 1965

eomagnétisme, Base Roi Baudouin, janvier 1965 à décembre 1965 [Geomagnetism, King Boudouin Base, Jan.–Dec. 1965], 21.10–107R

leteorology, Base Roi Baudouin, Feb. 1965–Feb. 1966, Vol. 1, 21.6–48

leteorology, Base Roi Baudouin, Feb. 1965–Feb. 1966, Vol. 2, 21.3–120

ondages ionosphériques, riomètre, Base Roi Baudouin, février 1965 à février 1966 [Atmospheric soundings [by] riometer, King Baudouin Base, Feb. 1965–Feb. 1966] 21.10–108R

ee also **Foccroulle, M.** (comp.), 21.10–107R; **Noback, H.** (ed.), 21.10–108R

pédition Antarctique Belgo-Néerlandaise, 1966

leteorology, King Baudouin Base, Feb. 966 to Jan. 1967, Vol. 1, 21.5–81

péditions Polaires Françaises, 1948

erritoire des Terres Australes et Antarctiques Françaises, Terre Adélie, 1967: observations visuelles des aurores, Base Dumont d'Urville [Territory of Southern Lands and French Antarctic, Adélie Land, 1967: visual observations of aurora, Dumont d'Urville Base], 21.10–109R

ee also **Jeanjacquot, Alain**, 21.10–109R

F

Faber, R.

Phénomènes optiques provoqués par ensemencement d'un brouillard surfondu à température voisine de —6°C [Optical phenomena resulting from seeding of a supercooled fog at a temperature of about —6°C], 21.6–152

See also **Serpolay, R.**, 21.6–154

Fabian, Peter

Global rate of ozone destruction at the Earth's surface (*with* **Junge, C. E.**), 21.12–287

Facas, J., *see* **Dollfus, A.**, 21.8–746

Facilities for Atmospheric Research [Boulder, Colo.]

Fully tailored tow balloon, 21.5–86

High-capacity microsphere generator, 21.6–125

High-level winds at Palestine, Texas, 21.5–45

Lasers for atmospheric research, 21.3–81

Model ecosystems, 21.6–663

New electronic barometer, 21.3–189

New spectrometers for aerosol sizing 21.5–277

Nimbus balloons from Ascension Island 21.5–88

Satellite contributions to an early GARP experiment, 21.5–100

Statistical planning for balloon flights, 21.5–89

Thunderstorm observations from aircraft and mountain top, 21.3–43

Fadeeva, I. P.

O kompleksnom ispol'zovanii nekotorykh asinkhronnykh sviazei v prognose na mesiats dlia Kazakhstana [Complex utilization of some asynchronous relationships for the monthly prognosis over Kazakhstan], 21.12–163

Fadeeva, N. A., *see* **Obukhova, M. V.**, 21.12–443

Fadina, V. P., *see* **Kostko, O. K.**, 21.5–215

Fadiushina, N. N., *see* **Bachurina, A. A.**, 21.12–50

Fälthammar, Carl Gunne

Fundamental electromagnetic processes in the outer magnetosphere, 21.6–247

Radial motion resulting from pitch-angle scattering of trapped electrons in the distorted geomagnetic field (*with* **Walt, M.**), 21.3–527

See also **Birmingham, T. J.**, 21.7–364; **Block, L. P.**, 21.6–220

Fagioli, A., *see* **Visconti, I.**, 21.12–375
Fahr, H. J.
  Influence of interstellar matter on the density of atmospheric hydrogen, 21.9–118
Fainberg, Joseph, *see* **Stone, R. G.**, 21.3–378
Faire, A. C.
  Upper atmosphere parameters obtained from recent falling sphere measurements at Elgin, Florida (*with* **Champion, K. S. W.**), 21.5–311
Fairhall, A. W.
  Concerning the source of the excess ^{3}He in the sea, 21.9–700
  Radiocarbon from nuclear testing and air-sea exchange of CO_2 (*with others*), 21.4–676
Faisal, Mohamed (Prince)
  Desalination program for Saudi Arabia, 21.8–832
Faiss, W., *see* **Spielbauer, M.**, 21.9–723
Fakser, I. Kh., *see* **Usikov, A. Ia.**, 21.5–611
Fal, Barbara
  O sezonach hydrologicznych w Polsce [Hydrological seasons in Poland], 21.5–643
  See also **Interntl. Assn. of Scientific Hydrology**, 21.1–48
Falciani, R.
  Analysis of some solar flares from optical, X-ray, and radio observations (*with others*), 21.2–481
Falcone, V. J., Jr.
  Refraction, attenuation, and backscattering of electromagnetic waves in the troposphere, 21.10–570
Falkenmark, Malin
  Om kylvattenutsläpp i recipienter [Concerning outlets of cooling water into recipients] (*with* **Milanov, T.**), 21.7–796
  Sweden (*with* **Hawerman, Bertil**), 21.11–95R
Faller, Alan J.
  Generation of Langmuir circulations by the eddy pressure of surface waves, 21.4–700
  Instability of the thermal wind (*with* **Kaylor, R.**), 21.7–473
  Numerical studies of penetrative convective instabilities (*with* **Kaylor, R.**), 21.5–531
Faller, James E., *see* **Weart, S. R.**, 21.6–733
Falls, Lee W.
  Probability distribution for the number of thunderstorm events at Cape Ken Florida, 21.3–474
Falovskii, A. A.
  K voprosu izucheniia Karsta Bol'sh Donbassa v tseliakh obogashche podzemnykh vod [The problem of stu ing the Karst of the larger Donbas the objective of enriching undergro waters], 21.11–699
Falzgraf, Bryan G.
  Preparation of terminal forecast w sheets, 21.9–101R
Fang, D. J.
  Formation of high-latitude plasma irr larities by wind-shear action in upper atmosphere, 21.7–181
Faniran, Adetoye
  Index of drainage intensity: a provisi new drainage factor, 21.1–796
Fankhauser, J. C.
  Convective processes resolved by a m scale rawinsonde network, 21.3–475
Fanning, Robert W.
  USAF Aerospace Environmental Communications in the 70's, 21.7–74
Fantoli, Amilcare
  Contributo alla climatologia dell'Etio riassunto dei risultati e tabelle met ologiche e pluviometriche [Contribu to the climatology of Ethiopia: res of results and meteorological and pl ometric tables], 21.10–448
Faraponova, G. P.
  Issledovanie radiatsionnykh termoelen tov, prednaznachennykh dlia izmere radiatsionnykh potokov v atmos [Investigation of radiation ther elements for measuring short and wave radiation fluxes in the a sphere], 21.3–178
  Metod i nekotorye rezul'taty izme potokov korotkovolnovogo i dlinno novogo izlucheniia Zemli na ISZ "K mos-149" [Method and some result measurements of short- and long radiation fluxes from the Earth "Cosmos-149"] (*with others*) English transl.], 21.3–515
  O radiatsionnom nagrevanii vozdukh schet dlinnovolnovoĭ radiatsii v dne chasy [Long-wave radiation heatin the atmosphere during the dayt [and English transl.], 21.6–375
  Polevye ispytaniia radiatsionnykh ter elementov [Field tests of radiation t

moelements] (*with* **Timanovskaia, R. G.**), 21.1–176

'arkas, Amália

A valódi havi középhőmérsékletek megkozelítése a napi szélsőértékekből [Approximation of the actual monthly mean temperature from daily extremes] (*with* **Micheller, I.**), 21.9–238

'arkas, E.

[Comments on] **J. K. Angell** and **J. Korshover:** Biennial variation in springtime temperature and total ozone in extratropical altitudes [and Reply by] **Angell** and **Korshover,** 21.5–326

'arley, D. T.

Incoherent scatter correlation function measurements, 21.4–76

'arley, T. A.

Evaluation of the CRAND source for 10- to 50-Mev trapped protons (*with* **Tomassian, A. D.** and **Chapman, M. C.**), 21.8–268

Radial diffusion of starfish electrons, 21.3–528

'arlow, N. H., *see* **Ferry, G. V.,** 21.12–617

armer, C. B.

Estimate of line width and pressure from the high resolution spectrum of Jupiter at 11,000 Å, 21.7–757

arnes, Phillip E.

Montana telemetry system (*with* **Rompel, J.**), 21.10–401

arquhar, Robert W.

Future missions for libration-point satellites, 21.3–151

ashchevskii, B. V.

O lednikovom pitanii rek gornogo Altaia [Alimentation of glacial streams in the Altai Mountains], 21.11–428

ast, Arlo W.

Artificial destratification of El Capitan reservoir by aeration, Pt. 1, 21.4–594

astie, W. G., *see* **Dick, K. A.,** 21.9–443; **Opal, C. B.,** 21.10–520

ateev, N. P.

Apparatura dlia poverki meteorologicheskikh priborov [An apparatus for testing meteorological instruments], 21.8–70

Ob ispol'zovanii ul'trazvukovogo anemometra s'tsifrovoi indikatsieĭ sredneĭ skorosti v kachestve kontrol'nogo pribora pri poverke i graduirovke datchikov vetra [The use of an ultrasonic anemometer with digital mean velocity indication as a control instrument for the checking and calibration of wind sensors] (*with* **Reznikov, G. P.** and **Popov, M. V.**), 21.8–59

See also **Pokrovskaia, I. A.,** 21.10–38R

Fatkullin, M. N.

K raspredeleniiu elektronnoĭ kontsentratsii vo vneshneĭ chasti oblasti F2 v spokoinykh i vozmushchennykh usloviiakh [Electron concentration distribution in the outer part of the F2-region during quiet and disturbed conditions] (*with* **Legen'ka, A. D.**), 21.8–174

Shirotnoe raspredelenie temperatury nochnoĭ oblasti F2 ionosfery v spokoĭnykh i vozmushchennykh usloviiakh, rasschitannoe po dannym sputnika "Aluet-1" [Latitudinal distribution of temperature in the nocturnal F2 zone of the ionosphere under quiescent data and perturbed conditions calculated from data of satellite "Aluette-1"] [and English transl.], 21.5–345

See also **Muradov, A.,** 21.8–193; **Pogrebnoĭ, V. N.,** 21.5–352

Fausey, Norman R.

Soil moisture content, tilth, and soybean (*Glycine max.*) response with surface and subsurface drainage (*with* **Schwab, G. O.**), 21.10–427

Faust, Heinrich

Beeinflussen Vorgänge in höheren Luftschichten die Zirkulation unterhalb 20 km? [Do events at upper atmospheric levels affect circulation patterns below 20 km?], 21.6–193

50 Jahre Grosswetterforschung [Fifty years of large-scale weather research], 21.3–15

Vertikalprofile von Druck-, Temperatur- und Dichteänderungen bei Druckänderungen in der oberen Troposphäre [Vertical profile of pressure, temperature, and density variation according to pressure variations in the upper troposphere], 21.3–311

Favarger, D., *see* **Dütsch, H. U.,** 21.5–325

Fawaz, Mohamad

Lebanon, 21.11–95R

Fawcett, E. B.

Systematic errors in operational baroclinic prognoses at the National Meteorological Center, 21.3–231

Fay, J. A.

Plume rise measurements at industrial

chimneys (*with* **Escudier, M. P., Hoult, D. P.,** and **Halliday, E. C.**), 21.3–597
  See also **Hoult, D. P.,** 21.3–598

Fea, G.
  Prima documentazione generale della situazione meteorologica relativa alla grande alluvione del novembre 1966 [First general documentation of the meteorological situation relative to the great flood of Nov. 1966] (*with* **Gazzola, A.** and **Cicala, A.**), 21.8–471

Fea, M., *see* **Cialdea, R.,** 21.4–363

Fedenko, N. V.
  Vozmozhnosti ispol'zovaniia karsta dlia vodosnabzheniia riada raĭonov Tsentral'no-Chernozemnykh oblasteĭ [The possibility of using the karst areas for the water supply of several regions of the Central Black Earth Regions], 21.11–708

Federación Nacional de Cafeteros de Colombia, Bogota
  Anuario Meteorológico, 1967 [Meteorological Yearbook, 1967], 21.10–121R

Federal–State Agricultural Weather Service, Lakeland, Fla.
  Season's Report of the . . . Weather Service, 1968–1969, 21.2–1

Federal–State–Private Cooperative Snow Surveys
  Summary of snow survey measurements for Nevada and pertinent measurements in California and Oregon, 1910–1967, 21.1–627
  Summary of snow survey measurements for Oregon, 21.8–440

Federov, E. K.
  Activities of the Hydrometeorological Service of the Soviet Union, 21.9–6

Fedor, L. S., *see* **Wright, J. W.,** 21.3–382

Fedoreĭ, V. G.
  Koeffitsienty pavodochnogo stoka rek Primor'ia [Coefficients of the flood runoff of rivers in the Maritime Territory], 21.2–534

Fedorov, A. A., *see* **Brylev, G. B.,** 21.1–108

Fedorov, B. A.
  Radiolokatsionnye issledovaniia lednikovogo pokrova Antarktidy [Radar investigations of the Antarctic ice cover], 21.8–800

Fedorov, E. K.
  O perspektivakh razvitiia Gidrometsluzhby SSSR v iubileinom godu [The prospects of development of the Hydrometeorological Service of the U.S.S.R. in the anniversary year], 21.11–8
  O rabote gidrometeorologicheskoĭ sluzh
  v SSHA [Activities of the hydrom
  teorological service in the U.S.A
  21.12–9

Fedorov, I. I.
  O pereschete glubiny v davlenie pri op
  delenii skorosti zvuka v morskoi v
  [Recalculation of depth into pressu
  while determining sound velocity in t
  sea water] 21.11–765

Fedorov, Iu. K.
  Nekotorye osobennosti tropopauzy
  Mirnym v 1964 g. [Some features
  tropopause over Mirnyy in 1964], 21.1
  275
  See also **Belkin, A. D.,** 21.10–479

Fedorov, S. F.
  O rezul'tatakh issledovaniia kharakteris
  turbulentnogo obmena v lesu [Results
  turbulent exchange characteristics in
  forest] (*with* **Ral'tsevich, N. D.**), 21.
  483
  See also **Kuz'min, P. P.,** 21.5–561; 21.
  542

Fedorova, A. A., *see* **Borovikov, A.**
  21.6–593

Fedorova, E. O., *see* **Sholokhova, E.**
  21.12–579

Fedorova, L. V., *see* **Kurskaia, A. A.,** 21.
  48R

Fedorova, N. I., *see* **Dzhordzhio, N.**
  21.5–344

Fedorova, Z. P., *see* **Shpaĭkher, A.**
  21.2–124

Fedorovich, G. V.
  Volny kontsentratsii v ionosfere [Conce
  tration waves in the ionosphere], 21.1
  297

Fedoseev, A. P.
  Agrometeorologicheskie usloviia formi
  vaniia vskhodov iachmenia [Agrome
  orological conditions for the formati
  of young barley plants], 21.2–320
  Nauchnye osnovy agrometeorologicheski
  prognozov urozhaia senokosno-pastb
  shchnykh rastenii [Scientific princip
  of agrometeorological prognosis of ha
  pasture plants], 21.12–166
  Voprosy agrometeorologicheskogo obosn
  vaniia agrotekhniki [Agrometeorologic
  basis for agricultural engineering], 21.1
  51

Fedoseeva, T. N., *see* **Aleshin, V. I.,** 21.
  744

Fedosenko, V. S.
  O vliianii viazkosti na vnutrennie vol

tipa tsunami [Influence of viscosity on internal tsunami type waves], 21.12–796
dossev, L. I.
Radioizluchenie luny v millmetrovom i submillimetrovom diapazonakh voln [Radio emission of the Moon in millimeter and submillimeter ranges] (*with* **Lubiako, L. V.** and **Kukin, L. M.**) [and English transl.], 21.4–458
dulova, E. M.
Nekotorye voprosy metodiki proizvodstva i obrabotki volnomernykh nabliudeniĭ na krupnykh vodokhranilishchakh [Some problems in the methods of conducting and processing of water meter observations in large reservoirs], 21.4–595
dynskiĭ, A. V.
Mesures de la concentration de la vapeur d'eau dans la mésosphère, [Measurements of water vapor concentration in the mesosphere], 21.5–49
See also, **Perov, S. P.**, 21.3–59; 21.11–31
gan, D. J.
UHF radio pulses from the zenith associated with extensive air showers (*with* **Jennings, D. M.**), 21.10–534
hlhaber, L.
Results of the theory of tropospheric scattering, derived from propagation measurements, 21.9–136
hr, Uri
Propagating energy in the upper atmosphere including lower ionosphere generated by artificial sources, 21.9–160
hsenfeld, F. C.
Additional flowing afterglow measurements of negative ion reactions of D-region interest (*with* **Ferguson, E. E.** and **Bohme, D. K.**), 21.9–161
Si^+ and SiO^+ reactions of atmospheric importance, 21.3–316
igel'son, E. M., *see* **Avaste, O. A.**, 21.7–42; **Ginzberg, A. S.**, 21.2–440, 21.12–418; **Gradus, L. M.**, 21.1–465; **Petrova, L. M.**, 1.3–512
it, David M.
Analysis of the Texas coast land breeze, 21.4–220
it, Julius
Confinement of solar flare cosmic rays to sectors of the corotating solar magnetic field. 21.7–405
ix, G.
Contribution to the model of the slowly varying component of the Sun derived from observations at 8.6 mm, 21.8–719
Radio-emission and Ca-brightness of two outstanding active regions during their lifetime, 21.8–720
Solar bursts at millimeter wavelengths, 21.8–721
Feizulin, Z. I., *see* **Kon, A. I.**, 21.11–488
Fejer, J. A.
Fokker–Planck equation for pitch angle diffusion in spherical coordinates (*with* **Snyder, F. P.**), 21.11–291
Progress in magnetospheric radio (*with others*), 21.4–70
Fel'dman, Iu. G.
Zagriaznenie vozdukha avtomagistraleĭ fotooksidantami na urovniakh raznykh etazheĭ zhilykh zdaniĭ [Pollution of the air of a highway by photooxidants at the levels of different stories of apartment houses] (*with* **Lampert, F. F.**), 21.7–141
Zagriaznenie vozdukha krupnykh gorodov fotooksidantami i ikh deĭstvie na organizm [Air pollution of large cities with photooxidants and their action on the body] (*with* **Kurnosov, V. N.**), 21.1–292
Feldman, P. D.
Far infrared nightglow emission from atomic oxygen (*with* **McNutt, D. P.**), 21.3–519
Fel'dshtein, Ia. I.
Phenomenology and morphology of aurorae (*with* **Isaev, S. I.** and **Lebedinskii, A. I.**), 21.10–508
See also **Afonina, R. G.**, 21.2–130; **Starkov, G. V.**, 21.10–495; **Troitskaia, V. A.**, 21.5–741
Fellmann, N.
Vergleich klimatherapeutischer, Behandlungsergebnisse bei Erkrankungen des entzuendlich-rheumatischen Formenkreises mit den Erfolgen heute ueblicher Behandlungsmethoden [Comparison of climatic therapeutic treatment of diseases of the inflammatory rheumatic group with the results of the commonly used treatment methods], 21.8–539
Felts, Harold C.
U. S. Naval Oceanographic Office, 21.3–757
Fel'zenbaum, A. I.
Gidrodinamicheskaia nestatsionarnaia model' neodnorodnogo okeana [Hydrodynamic non-stationary model of an inhomogeneous ocean] [and English transl.], 21.4–692

Hydrodynamic nonstationary model for a heteorogeneous ocean [Transl. from Russian], 21.4–701

Fenner, Don F.

Upper and deep sound channel in the northeast Atlantic (*with* **Bucca, P. J.**), 21.7–841

Ferguson, E. E.

Negative ion: molecule reactions, 21.11–185

See also **Fehsenfeld, F. C.**, 21.9–161

Ferguson, Lowell D.

Techniques for suppressing anomalous response to vacuum ultraviolet radiation in the charged-particle lunar environment experiment (*with others*), 21.8–269

Ferguson, William S.

Atmospheric dust from the North Pacific: a short note on a long-range eolian tranport (*with* **Griffin, John J.** and **Goldberg, E. D.**), 21.7–142

Feris, Charles

Tornado at Kent, Washington, on December 12, 1969, 21.12–387

Ferland, Michel

Evapotranspiration potentielle au Québec [Potential evapotranspiration in Quebec], 21.10–360

Fernald, Frederick G.

Some polarization measurements of the reflected sunlight from desert terrain near Tucson, Ariz. (*with* **Herman, B. M.** and **Curran, R. J.**), 21.8–590

Fernandez Castillejo, Federico, *see* **Cano Lucaya, N.**, 21.2–752

Fernandez-Partagas, José J.

Preliminary report on meteorological conditions during BOMEX, fourth phase, July 11–28, 1969 (*with* **Estoque, M. A.**), 21.12–366

Synoptic meteorological study for the eastern Caribbean area, July 10–28, 1967, 21.12–374

Ferrand, Edward F., *see* **Blade, E.**, 21.7–135

Ferrara, R.

Scattering di un fascio laser in nebbia [Scattering of a laser beam in a fog] (*with* **Fiocco, G.** and **Tonna, G.**), 21.4–269

Studio dello scattering di un fascio laser in nebbia prodotta artificialments [Study of scattering of a laser beam in an artificially produced fog] (*with* **Fiocco, G.** and **Tonna, G.**), 21.1–570

Visibilità e conducibilità polare in nebbia [Visibility and electrical conducti in fog] (*with* **Tonna, G.**), 21.1–575

Ferraro, V. C. A.

Solar–terrestrial environment: an his cal survey, 21.2–138

Ferree, Roy J., *see* **Kish, A. J.**, 21.10–45

Ferris, G. A. J.

Planetary influences on sunspots, 21.6–

Ferry, G. V.

Microparticle collection experiments ing the 1966 Orionid and Leonid m shower (*with others*), 21.12–617

Fesenkov, V. G.

Current problems in atmospheric o 21.10–478

O vozmozhnosti ispol'zovaniia lun zatmenii dlia zondirovaniia optiches svoistv atmosfery [Possibility of u ing the lunar eclipses for soundin optical properties of the atmosph 21.12–578

O zondirovanii kosmicheskogo oblaka rug Zemli opticheskim metodom [So ing the cosmic cloud around the E by optical means], 21.5–692

Usloviiakh vidimosti serebriskykh obl [Visibility conditions of noctil clouds], 21.9–26R

Feteris, P. J., *see* **Boer, J. H.**, 21.9–205

Fett, Walter

[Comments on] **Knaake, Elizabeth:** welche Weise beeinflusst der Mond Witterung? [How does the Moon a the weather?], 21.8–567

Statistische Erfassung der Zellengrösse mosphärischer Ereignisse und der räsentanz der Messnetze [Statis comprehension of the cell magnitude atmospheric events and represent of the measuring network], 21.6–321

Fetzer, Laurice E., *see* **Miles, J. W.**, 2 102

Feussner, Karl

Über Trägheitsbewegungen, Äquipoten flächen und Corioliskräfte aufdem E ellipsoid [Inertial motion, equipoten surfaces and Coriolis forces on the E ellipsoid], 21.6–265

Few, A. A.

Power spectrum of thunder, 21.7–730

Theoretical discussion on the aco energy of thunder (*with* **Dessler, A.** 21.8–665

Fichtel, C. E.

Results of gamma-ray balloon astron

(*with* **Kniffen, D. A.** and **Ögelman,**
H. B.), 21.5–696
e also **Bertsch, D. L.**, 21.7–396;
Reames, D. V., 21.12–438
tl, George H.
aracteristics of atmospheric turbulence
as related to wind loads on tall structures
(*with* **Kaufman, J.** and **Vaughan, W.**
W.), 21.8–330
ngitudinal and lateral spectra of turbu-
ence in the atmospheric boundary layer
(*with* **McVehil, G. E.**), 21.11–234
ear layer and jet instability in stratified
nedia, 21.8–215
er, Richard E., *see* **Norris, S. E.**, 21.4–
nan, B. A.
primenenii foto- i konos"emki pri ek-
sperimental'nom issledovanii turbulent-
nosti vodnykh potokov [Using photog-
raphy and motion picture photography
n the experimental investigation of wa-
er stream turbulence], 21.2–602
toki s neodnorodnoĭ plotnost'iu [Streams
vith nonuniform density], 21.6–782
ler, Franz
tersuchungen über die Ausbreitung von
tmosphärischen Eigenschaften und
uftbeimengungen, Teil 1 [Investiga-
ions of the diffusion of atmospheric
roperties and contaminants, Pt. 1],
1.6–484; [Pt. 2], 21.9–259
Klassifizierung der Wettertypen in der
usbreitungsrechnung [Classification of
veather types in diffusion computation],
1.7–250
, William O.
rent observations on three surges in
lacier Bay, Alaska, 1965–68, 21.11–751
also **Horvath, E. V.**, 21.10–779
rova Vega, German E., *see* **Herrera,**
21.4–558
va, E. I., *see* **Fel'fer, E. I.**, 21.10–573
va, L. N., *see* **Severskii, I. V.**, 21.7–
; **Sosedov, I. S.**, 21.3–669, 21.6–550
ov, A. Kh.
ol'zovanie radiozonda RKZ dlia iz-
ereniia napriazhennosti elektricheskogo
olia v svobodnoĭ atmosfere [Use of the
KZ radiosonde to measure electric
eld strength in the free atmosphere]
with **Kovalev, I. N.**), 21.7–54
otorye statisticheskie kharakteristiki
roz na territorii SSSR [Some statisti-
al characteristics of U.S.S.R. thunder

storm activity] (*with* **Tsirkul'kevich, S. G.**), 21.7–299

Filippov, B. A.

K voprosu o topografii "biologicheskikh" znacheniĭ podvodonoĭ osveshchennosti v severnoĭ chasti Atlanticheskogo okeans [Problem of the topography of the "biological" importance of underwater illumination in the northern part of the Atlantic Ocean], 21.9–685

Filippov, V. L.

Nomogrammy dlia rascheta spektral'noĭ prozrachnosti atmosfery v oblasti 2.8–5.6 mkm [Nomograms for the calculation of the atmospheric spectral transparency in the 2.8–5.6-mkm range] (*with* **Mirumiants, S. O.**) [and English transl.], 21.4–139

Spektral'naia prozrachnost' prizemnogo sloia atmosfery dlia IK izlucheniia [The spectral transparency of the ground level atmosphere for infrared radiation] (*with* **Mirumiants, S. O.**), 21.7–334

Spektral'noe oslablenie IK radiatsii v usloviiakh zimneĭ dymki [Spectral attenuation of infrared radiation in the presence of winter haze] (*with* **Artem'eva, L. M.** and **Mirumiants, S. O.**), 21.7–332

Filippov, V. V.

Quality control procedures for meteorological data, 21.9–15

Rol' otdel'nykh faktorov v formirovanii rezhima temperatury vozdukha nad okeanom [Role of individual factors in the formation of the atmospheric temperature regime above the ocean] (*with* **Kaganskiĭ, A. S.**), 21.2–174

Filiushkin, B. N., *see* **Navrotskiĭ, V. V.**, 21.2–700

Filloux, Jean H.

Deep sea tide and deep sea tide gauges, 21.2–693

Filz, Robert C.

Corpuscular radiation: a revision of Ch. 17, **Handbook of Geophysics and Space Environments** (*with others*), 21.7–406

Fimpel, Hans Peter

Messungen der Normsichtweite mit einem Streulichtschreiber während der Atlantischen Expedition 1965 "Meteor" [Measurements of standard visibility using a scattered light recorder during the "Meteor" Atlantic Expedition, 1965] (*with* **Müller, Hans Gerhard** and

Ruppersberg, Gerhard Helfrich), 21.1–94
- **Finch, C. R.**
  - Experiment in the teaching of meteorology, 21.3–16
  - Two torrents in a week, 21.10–390
- **Finch, E. D.**, *see* **Rabideau, S. W.**, 21.6–813
- **Findlater, J.**
  - Interhemispheric transport of air in the lower troposphere over the western Indian Ocean, 21.1–379
  - Major low-level air current near the Indian Ocean during the northern summer, 21.1–533
- **Findlay, B. F.**
  - Precipitation in Northern Quebec and Labrador, 21.3–66
  - Urban-induced meso-circulation (*with*
- **Findlay, J. A.**, *see* **Brace, L. H.**, 21.11–172
  Hirt, M. S.), 21.6–665
- **Finger, Frederick G.**
  - Is meteorology ready for the SST, 21.10–148
  - *See also* **Miller, A. J.**, 21.4–173
- **Finizio, Carlo**, *see* **Palmieri, S.**, 21.7–98, 102
- **Fink, Uwe**
  - Collision narrowed curves of growth for H_2 applied to new photoelectric observations of Jupiter (*with* **Belton, M. J. S.**), 21.6–705
- **Finkel'shtein, M. I.**
  - Ob anizotropii zatukhaniia radiovoln v morskom l'du [Anistrophy of radiowave attenuation in sea ice], 21.12–730
- **Finkelstein, David**, *see* **Powell, J. R.**, 21.2–362
- **Finland. Havsforskningsinstitutet**
  - Vedenkorkeusarvoja 1967 [Sea level records for 1967], 21.10–792
- **Finland. Hydrografinen Toimisto**
  - Hydrologinen Vuoskirja 19, 1965–1966 [Hydrologic Yearbook 19, 1965–1966], 21.2–521
- **Finland. Ilmatieteen Laitos**
  - Ilmastohavainnot, 1968 [Climatological data, 1968], 21.9–199R
  - Jokioisten ja Sodankylän Observatorioiden Ilmastohavainnot, 1968 [Climatological data from Jokioinen and Sodakylä Observatories, 1968], 21.9–200R
  - Kuukausikatsaus Suomen Ilmastoon [Observations of the climate of Finland], 21.11–67R
  - Observations of radioactivity, 1968, 21.1–127
  - Observations of radioactivity, 1969, 68R
  - Results of soil temperature measure at Sodankyla Observatory, 1957 21.12–458
  - Sade- ja Lumihavainnot, 1968 [Pre tion and snow cover data, 1968], 201R
  - Säteily- ja Auringopaiste-Havainnot 1964 [Measurements of radiatio bright sunshine 1963–1964], 21.5–4
  - Säteily- ja Auringonpaiste-Hav 1965–1966 [Measurements of ra and bright sunshine, 1965–1966], 202R
- **Finland. Meteorologiska Centralans**
  - Jokiosten ja Sodankylän Observato Ilmastohavainnot, 1967 [Climatol data from Jokioinen and Sodanky servatories, 1967], 21.1–131
- **Finley, L. T.**, *see* **Siscoe, G. L.**, 21.11–
- **Finn, David L.**
  - Analog simulation of wind turb 21.3–585
- **Finnegan, William G.**
  - Chemical and physical properties of ing nuclei from pyrotechnic comb (*with* **Burkhardt, L. A.** and **crantz, F. K.**), 21.5–578
  - *See also* **Burkardt, L. A.**, 21.11–370
- **Fiocco, G.**, *see* **Ferrara, R.**, 21.1–570; 269
- **Fiore, Gaetano**, *see* **Prodi, F.**, 21.12–54
- **Firer, John W.**
  - Individual Scientist in Global Atmos Research program, 21.10–4
- **Fischbach, F. F.**
  - Microwave refraction as a techniq satellite meteorology (*with* **Grave E.** and **Jones, L. M.**), 21.6–21
  - *See also* **Graves, M. E.**, 21.2–21
- **Fischer, Günter**
  - On the generation of quasi-geost waves by mountains, 21.6–526
  - *See also* **Boye, H.**, 21.6–132
- **Fischer, Hans Friedrich**
  - Messungen der künstlichen Radioak in der freien Atmosphäre von Flu gen aus [Measurements of artifici dioactivity in the free atmosphere aircraft], 21.6–259
- **Fischer, Heinz-Jürgen**, *see* **Riekert** 21.12–119
  - *See also* **Takeuchi, T.**, 21.9–432
- **Fischer, Leander**
  - Witterung und Strassenzustand im

ter 1968/69 in Wien I [Weather and throughfare conditions in Vienna I during the winter of 1968/1969], 21.11–65R

ischer, W. H.

Estimation of some atmospheric trace gases in Antarctica (*with others*), 21.5–223

isher, Philip C., *see* **Acton, L. W.**, 21.2–129

ishkova, L. M.

O raspredelenii intensivnosti v sploshnom spektre svecheniia nochnogo neba v oblasti 5500–6700 Å [Distribution of intensity in a complete spectrum of the night sky luminescence in the region 5500–6700 Å], 21.11–287

ishman, B. E., *see* **Zabolotskaia, T. N.**, 21.10–397

isk, Donald M., *see* **Ingraham, W. J., Jr.**, 21.2–665

isk, L. A.

Anisotropies of solar cosmic rays (*with* **Axford, W. I.**), 21.7–407

Solar modulation of galactic cosmic rays, Pt. 1 (*with* **Axford, W. I.**), 21.9–477

itzgerald, James W.

Non-steady-state supersaturations in thermal diffusion chambers, 21.6–108

itzgerald, P. D., *see* **Rickard, D. S.**, 21.5–655

itzpatrick, E. A.

Model for simulating soil water regime in alternating fallow-crop systems (*with* **Nix, H. A.**), 21.8–487

See also **Nix, H. A.**, 21.9–358

jeldbo, G.

Atmosphere of Venus as studies with the Mariner-5 dual radio-frequency occultation experiment (*with* **Eshleman, V. R.**), 21.9–498

lack, J. Ernest

Analysis of urban water use in developing countries, 21.9–613

anders, A. F.

Hydrological requirements for weather radar data, 21.4–303

See also **Baker, D. R.**, 21.11–48R

eming, Günther

Zur Abhängigkeit der Schneedichte von der Windgeschwindigkeit, insbesondere an Waldfeldgrenzen sowie im Vergleich zwischen Hochfläche und Tal [Relationship between snow density and wind velocities, particularly at forest/field boundaries and in comparison between highland and valley], 21.1–628

eming, J. H., *see* **Jones, M. D.**, 21.9–239

Fleming, M., *see* **Baker, D. R.**, 21.11–48R

Fletcher, J. O.

Changing climate, 21.4–33

Fletcher, Joseph

Vliianie poliarnykh l'dov naklimat [Influence of polar ice on climate], 21.12–572

Fletcher, N. H.

Active sites and ice crystal nucleation, 21.6–556

Chemical physics of ice, 21.10–771

Surface structure of water and ice, Pt. 2, 21.2–530

Fletcher, Roy Jackson

Meteorological conditions and related causes of extreme departures from mean monthly precipitation within the southeastern United States, 21.7–612

Fligel', M. D., *see* **Kochenova, N. A.**, 21.11–194

Flindt, Herbert R.

Local-time dependence of geomagnetic cutoffs for solar protons, $0.52 \leq E_p \leq 4$ Mev, 21.7–408

Flocchini, Giuseppe

Su alcune particolarità del campo barico a Genova e dintorni [Some specifics of the baric field at Genoa and the vicinity], 21.3–577

Sul regime termico di Genova e di Monte Capellino (m 638–700) [Some thermal regimes at Genoa and Mt. Capellino (638–700)], 21.2–175

See also **Bossolasco, M.**, 21.2–268; 21.7–306, –720

Flock, W. L.

Auroral zone as a source of traveling ionospheric disturbances (*with* **Hunsucker, R. D.**), 21.9–162

Flögl, Heide

Barometrische Höhenmessung mit dem "Barolux" [Barometric measurement of altitude with the "Barolux"], 21.12–92

Flohn, H., *see* **Strüning, J. O.**, 21.5–410; **Korff, H. C.**, 21.6–436

Florian, R. L., *see* **Hanks, R. J.**, 21.9–278

Florida Atlantic Univ. Dept. of Geography, Boca Raton, Fla., *see* **Craig, A. K.**, 21.2–311

Florida. State Univ., Tallahassee. Dept. of Met., *see* **Pfeffer, R. L.**, 21.2–83

Florkowski, T.

Measurement of high discharges in turbulent rivers using tritium tracer (*with others*), 21.4–589

Flower, Ronald J., *see* **Peep, M.**, 21.6–82

Flowers, E. C.
Atmospheric turbidity over the United States, 1961–1966 (*with* **McCormick, R. A.** and **Kurfis, K. R.**), 21.5–677

Foccroulle, M. (*comp.*), *see* **Expédition Antarctique Belgo-Néerlandaise, 1965,** 21.10–107R

Förchtgott, Jiri
Winter thunderstorms in Central Europe, 21.8–232

Fofonoff, N. P., *see* **Clarke, R. A.**, 21.2–736

Fogarasi, S., *see* **Barry, R .G.**, 21.4–308

Fogel, Martin Mark
Effect of storm rainfall variability on runoff from small semiarid watersheds, 21.9–339
Effect of the spatial and temporal variations of rainfall on runoff from small semiarid watersheds, 21.8–376
Point rainfall frequencies in convective storms (*with* **Duckstein, L.**), 21.7–615
See also **Pase, C. P.**, 21.6–765

Foitzik, Leonhard
Logarithmische Gauss-Verteilungen beim atmosphärischen Aerosol: Extinktion und Streuvorgänge [Logarithmic gaussian distributions as applied to the atmospheric aerosol: spectral extinction and scattering processes], 21.10–140
Messungen der Farbwertfunktionen des Himmelslichts im Hochgebirge [Measurement of color value functions of skylight in high mountains] (*with others*), 21.9–217
Messungen der Himmelsstrahlung und ihrer polarisation auf der lomnitzer Spitze (CSSR) [Measurements of sky radiation and its polarization on Lomnice Peak (Czechoslovakia)] (*with others*), 21.21–423
Theoretische Streu- und Polarisationsfunktionen des atmosphärischen Aerosols unter Zugrundelegung logarithmischer Gauss-Verteilungen [Theoretical scatter functions and polarization functions of atmospheric aerosols, determined on the basis of logarithmic gaussian distributions] (*with* **Scheithauer, G.** and **Spänkuch, D.**), 21.7–704

Fok, Yu-Si, *see* **Stall, J. B.**, 21.2–586

Fokker, A. D.
Homology of solar radio events, 21.4–426
Spectral characteristics of medium-sized radio events, 21.4–447

Foley, G. H., *see* **Peterson, C. M.**, 21.5–279

Folger, D. W.
Wind transport of land-derived mine
biogenic and industrial matter over
North Atlantic, 21.12–237

Folkestad, K.
Results of rocket measurements in
lower auroral ionosphere (*with other*
21.9–163

Fomenko, Ia. A.
Opredelenie elementarnogo pritoka tal
vod s basseina po edinichnomu gi
grafu [Determination of the elemen
inflow of snow melt waters from the
sin, on the basis of a unified hyd
graph], 21.12–670

Fomichev, A. S.
Teplye ozera v vechnoĭ merzlote [W
lakes in permafrost], 21.2–617

Fomichev, V. V.
O poliarizatsii metrovogo solnechnogo
dioizlucheniia, nabliudaemogo v o
zhennykh luchakh [Polarization of s
radio emission at meter waves obser
in reflected rays] (*with* **Chertok, I. M**
21.12–596

Fomin, L. M.
K raschetu kastel’nogo napriazheniia ve
nad morem [Computation of wind st
over sea] (*with* **Moskalenko, L.**
21.8–338

Fonarev, G. A.
K voprosu o vertikal’nykh elektrichesk
poliakh morskikh techeniĭ [Vertical el
trical fields in the sea currents] (*w*
Shneer, V. S.), 21.4–768
O perspektivakh primeneniia elektrom
nitnogo metoda izmereniia skoro
techeniĭ v Arkticheskikh raĭonakh [
perspective of electromagnetic appro
to water current measurements in
Arctic waters] (*with* **Shneer, V.**
21.2–695

Fons, C., *see* **Blanchet, J.**, 21.3–286, –28

Fontaine, P.
Quelques applicatons particulières du b
hydrologique [Specific applications
the hydrologic balance], 21.2–241

Fontan, Jacques
Mésure de la mobilité et du coeffic
de diffusion des particules radioacti
[Measure of the mobility and the co
cient of diffusion of the radioactive p
ticles] (*with others*), 21.7–219

Fontes, J. Charles
Composition isotopique et origine de
vapeur d’eau atmosphériques dans

région du Lac Leman [Isotopic composition and origin of atmospheric water vapor in the region of Lake Leman] (*with* **Gonfiantini, R.**), 21.7–520

Forbush, Scott E.
Variation with a period of two solar cycles in the cosmic-ray diurnal anisotropy and the superposed variations correlated with magnetic activity, 21.7–409

Forchtgott, Jiri
Evidence for mountain-sized lee eddies, 21.6–527

Ford, D. C., *see* **Brown, M. C.,** 21.7–795

Ford, H. W.
Method for detecting and estimating hydrogen sulfide in flooded soil (*with* **Calvert, D. V.**), 21.4–395

Fordham, R.
Pressure drop porometer and its application to irrigation research on the tea crop, 21.10–361

Forest Microclimate Symposium, 3rd, Kananaskis Forest Experiment Station, Seebe, Alberta
Proceedings, 21.12–565

Forney, L. J., *see* **Hoult, D. P.,** 21.3–598

Forrester, W. D.
Tidal transports and streams in the St. Lawrence River and estuary, 21.2–797

Forslund, D. W.
Instabilities associated with heat conduction in the solar wind and their consequences, 21.10–281

Forstner, Helmut
Two temperature-compensated thermistor current meters for use in marine ecology (*with* **Rützler, K.**), 21.2–696

Forsyth, P. A., *see* **Hofstee, J.,** 21.9–451

Fortak, Heinz
Berechnung des charakteristischen "Scales" der Turbulenz der bodennahen Grenzschicht aus Windprofilmessungen [Calculation of the characteristic scale of turbulence of the atmospheric boundary layer using wind-profile data], 21.11–235
Zur Energetik der planetarischen Grenzschicht [Energetics of the planetary boundary layer], 21.6–266

Forti, G.
On the width of the Geminid shower at faint radio magnitude, 21.11–607

Fortini, T.
Ejections of matter from the main component of fast growing sunspot-groups (*with* **Torelli, M.**), 21.2–472
On the birth of some proton-flare regions (*with* **Torelli, M.**), 21.2–482
Regioni solari sedi di eventi protoni negli anni 1965, 1966, 1967 [Proton events in the solar region during 1965, 1966, 1967], (*with* **Torelli, M.**), 21.2–454

Foster, H. D., *see* **Maunder, W. J.,** 21.5–269

Foster, Patricia R.
Radio observations in the short microwave region, 21.7–746

Foster, Richard L.
Effect of unit weight and slope on erosion (*with* **Martin, G. L.**), 21.9–323

Foster, Theodore D.
Experiments on haline convection induced by the freezing of sea water, 21.7–844

Fourrier, Joëlle
Ambient temperature measurements from constant-level balloons (*with* **Morel, P.** and **Sitbon, P.**), 21.6–453

Fowler, Phillip M., *see* **Williams, R. E.,** 21.7–800

Fox, Herbert L.
Vertical profiles of wind and temperature by remote acoustical sounding, 21.6–27

Fox, Irving K.
Structure for the task and some areas of study, 21.1–294

Fox, Johannes M.
Die oberen windstromungen und die Abscheidung von kunstlichen radioaktiven aerosolen aus der Atmosphare [Upper wind currents and the deposition of artificial radioactive aerosols from the atmosphere], 21.12–342

Fox, Kenneth, *see* **Margolis, J. S.,** 21.7–760; 21.11–589, –590

Fox, Robert J.
Principles and meteorological applications of lasers, 21.7–735

Fox, T.
Example of a medium level westerly wave over South and Central Africa, 21.7–616

Fow, B. Richard, *see* **Mount, Wayne D.,** 21.12–37

Fracassini, Massimo
Permanence of cometary matter in interplanetary space (*with* **Pasinetti, L. E.**), 21.2–452

France. Centre National pour l'Exploitation des Océans
Bulletin CNEXO, No. 1, 21.2–646
Rapport Annuel, 1968 [Annual Report, 1968], 21.12–16R

France. Comité Central d'Oc. et d'Etudes des Côtes, Cahiers Oc.

Marée à Philippeville (Skikda) [Tides at Philippeville (Skikda)], 21.2–729
Mareé à Tahanéa (Archipal des Tuamotu) [Tide at Tahanea, Archipelago of the Tuamotu], 21.1–717
Mareé au Grand-Piquey (Bassin d'Arcachon) [Tide at Grand-Piquey (Arcachon basin)], 21.2–798

France. Météorologie Nationale
Le bathythermographe [The bathythermograph], 21.9–677
Données statistiques sur les éléments météorologiques en altitude, Recueil No. 10, Chateauroux [Statistics on upper air meteorological elements, collection No. 10, Chateauroux], 21.10–51
Observation visuelle des vagues [Visual observation of waves], 21.4–649

France. Secrétariat Permanent pour l'Etude des Problèmes de l'Eau
General water conditions of France, 21.11–95

France. Territoire Français des Afars et des Issas. Service de la Météorologie, Djibouti
Resumé Mensuel de Temps, April 1968/June 1969 [Monthly weather resumé, April 1968–June 1969], 21.10–43

Franceschini, Guy A.
Air–sea interaction, 21.2–773
Effect of Hurricane "Inez" (1966) on the hydrography and productivity of the Western Gulf of Mexico (*with* **Sayed, S. Z. E.**), 21.4–104
Influence of clouds on solar radiation at sea, 21.3–496

Franchiotti, Sergio
Rappresentazione sintetica delle condizioni meteorologiche locali per scopi statistici e aeronautici [Representation of local meteorological conditions for statistical and aeronautical use], 21.8–14

Franciosi, M. T.
Sulla stabilità delle funzioni empiriche ortogonali rappresentanti variazioni pentadiche del geopotenziale a 500 mb [Stability of the orthogonal empirical function representing 5-day variations of the geopotential at 500 mb] (*with* **Rosini, E.** and **Todaro, C.**), 21.1–477

Francis, William E., *see* **Walt, M.**, 21.7–386
Franco, R., *see* **Colacino, M.**, 21.7–138

François, R. Ch.
Pollution atmosphérique dans le complexe de Lacq [Atmospheric pollution in the Lacq complex] (*with others*), 21.5–247

Francou, J.
Essai de classification des crues maxima
[Attempt to classify maximum floo
(*with* **Rodier, J. A.**), 21.8–786

Frank, A. H. E.
Pollen stratigraphy of the Lake of Vi
central Italy, 21.8–523

Frank, H., *see* **Hess, B.**, 21.5–579

Frank, L. A.
On the presence of low-energy prot
($5 \lesssim E \lesssim 50$ kev) in the interplanet
medium, 21.7–366
See also, **Yeager, D. M.**, 21.4–155

Frank, W. H.
Research problems connected with arti
cial groundwater recharge in the Ru
Valley, 21.9–642

Frankel, M. L.
Planned utilization of water resourc
21.2–552

Franken, Ernst
Über den Einfluss der unmittelbaren U
gebung einer Klimastation auf die E
tremtemperaturen [Influence of t
immediate environment of a climatic o
servation station upon temperature e
tremes], 21.5–478

Frankenberger, Ernst
Über abendliche Änderungen der relativ
Feuchte [Evening changes in relat
humidity], 21.6–536

Frankenthal, S., *see* **Theodoridis, G.**
21.8–299, –301

Frankignoul, Claude
Note on internal waves in a simple therm
cline model, 21.4–775

Frank-Kamenetskiĭ, D. A.
Novoe v teorii turbulentnykh teche
[New contributions to the theory
turbulent flow], 21.7–251

Franklin, C. A.
Design of swept-frequency topisde sour
ers (*with* **MacLean, M. A.**), 21.10–60

Franklin, F. A.
Search for an atmosphere envelopi
Saturn's rings (*with* **Cook, A. F**
21.12–610

Franklin, J. L.
Ionization potentials, appearances pote
tials, and heats of formation of gaseo
positive ions (*with others*), 21.2–354

Franklin, R. E.
Frost scaling on concrete roads, 21.6–44

Frantzen, A. J. (De Bilt)
Het plan voor de World Weather Wat

(WWW) [Plan for World Weather Watch], 21.1–65

Franz, Hjalmar W.
Zellstruktur sationärer Konvektionswirbel [Cellular structure of steady convective vortices], 21.3–635

Fraser, A. B.
White box: the mean mechanics of the cumulus cycle, 21.1–585

Fraser-Smith, A. C.
Possible full-moon enhancement of hydromagnetic emission activity, 21.2–381

Frazier, Howard M., *see* **Macdonald, N. J.,** 21.10–239

Freckelton, H. J.
Work of a meteorologist in a weather ship, 21.5–85

Frederick, R. H., *see* **Miller, J. F.,** 21.7–606

Fredericks, Alan D.
Organic carbon in the Gulf of Mexico (*with* **Sackett, William M.**), 21.12–751

Fredga, Kerstin
Solar active regions in MG II light, 21.1–708

Fredricks, R. W.
Electrostatic heating of solar wind ions beyond 0.1 AU, 21.2–139

Fredriksen, R. L.
Battery powered proportional stream water sampler, 21.9–579

Freedman, William J., *see* **Friedman, H. A.,** 21.9–42

Freeman, J. W., Jr.
Particle dynamics at the synchronous orbit (*with* **Maguire, J. J.**), 21.7–367

Freeman, John C.
Concerning a fundamental mechanism in tropical meteorology, 21.7–263
Forecast methods from satellite photographs, 21.12–130

Freeman, M. H.
Role of aeronautical meteorological offices within the framework of an area forecast system, 21.12–177

Freeze, R. Allan
Blueprint for a physically-based, digitally-simulated hydrologic response model (*with* **Harlan, R. L.**), 21.6–748

Freier, George D.
Electrical structure of thunderstorms, 21.8–615
See also **Anderson, F. J.,** 21.10–496

Freifel'd, V. Ia.
O temperaturnom rezhime materikovogo lednikovogo pokrova Zemli Enderbi [Temperature regime of the continental ice cover of Enderby Land], 21.11–742

French, A. G.
Intermediate ionospheric layer at high altitudes, 21.7–182

French, Robert A.
Navy programs, 21.3–767

French Polynesia. Service de la Météorologie
Résumé des Observations en Altitude, 1967 [Resume of upper air observations, 1967], 21.10–110R
Résumé des Observations en Surface, 1967 [Resumé of surface observations 1967], 21.10–115R

Frenzen, Paul
On measuring vertical fluxes of momentum and heat with cup anemometers, 21.1–181

Frey, Ivan R.
International implications of United States meteorological satellite system, 21.3–270

Freychuss, Stig
Pulp mill waste in Sweden, 21.9–656

Frick, R. H.
Propagation of sound as affected by wind and temperature gradients, 21.11–544

Frid, A. S., *see* **Zamammurad, Kh.,** 21.10–439

Fridley, Burley D., *see* **Patric, J. H.,** 21.6–76

Fridovich, Bernard
Selected water vapor line parameter mea surements with accurate absorbed thickness determination, 21.3–640

Fridzon, M. B.
K raschetu teplovogobalansa termometricheskikh elementov [Determination of the thermal budget of temperature sensing elements], 21.5–111
See also **Zaĭchikov, P. F.,** 21.12–91

Fried, D. L.
Remote probing of the optical strength of atmospheric turbulence and of wind velocity and [Comments by] **R. E. Hufnagel,** 21.6–9

Friedlander, S. K.
New concepts in aerosol size spectrum theory (*with* **Hidy, G. M.**), 21.12–238
Theoretical model for the effect of an acute air pollution episode on a human population, 21.5–248

Friedman, D.
Infrared characteristics of ocean water (1.5–15) 21.7–840

Friedman, H.
  Cosmic X-ray observations, 21.8–709
  X-ray observations of solar flares, 21.10–280
Friedman, Herbert
  Energetic solar radiations, 21.9–221
Friedman, Howard A.
  ESSA Research Flight Facility: data processing procedures (*with* **Ahrens, M. R.** and **Davis, H. W.**), 21.7–13
  ESSA Research Flight Facility: facilities for airborne atmospheric research (*with* **Circirelli, F. S.** and **Freedman, W. J.**), 21.9–42
  See also **Spar, J.**, 21.6–325
Friedman, Jack P.
  Iterative series methods for finding exact numerical solutions for a class of second order differential equations (*with* **Crawford, B. W.**), 21.8–659
Friedman, M.
  On a possible proton origin for Type V continuum radiation from a solar flare and [Comments by] **Z. Švestka** (*with* **Hamberger, S. M.**), 21.11–629
  Plasma turbulence in solar flares as an explanation of some observed phenomena (*with* **Hamberger, S. M.**), 21.10–655
Frihagen, J., *see* **Bratteng, O. M.**, 21.1–330
Frimescu, Mircea
  Aspecte privind preocupari actuale in domeniul electricitatii atmosferice [Viewpoints of current interest in the field of atmospheric electricity], 21.12–582
Frind, Emil O.
  Rainfall–runoff relationships expressed by distribution parameters, 21.7–585
Frink, C. R.
  Water pollution potential estimated from farm nutrient budgets, 21.4–576
Frisby, Emily M., *see* **Kline, J. C.**, 21.8–604
Fritsh, J. Michael
  Objective analysis of a two dimensional data field by the cubic spline technique, 21.6–19
Fritz, James H.
  Investigation of F2-region ionospheric behavior by computer methods (*with* **Yeh, K. C.**), 21.9–164
Fritz, S., *see* **Hubert, L. F.**, 21.3–462; **Smith, W. L.**, 21.7–463
Fritz, Sigmund
  On the question of measuring the vertical temperature distribution of the atmosphere from satellites, 21.6–451
Fritz, T. A.
  Initial observations of geomagneticall trapped protons and alpha particles wit OTO 4 (*with* **Krimigis, S. M.**), 21.8-270
Frolov, P. M., *see* **Katterfel'd, G. N.**, 21.4-474
Frolova, T. M., *see* **Lazarev, D. N.**, 21.1-427
Froment, G.
  Sonde optique d'ozone à mesures simu tanées [Optical-type ozonesonde in s multaneous measurements], 21.7–69
Frost, Kenneth J.
  Rapid fine structure in a burst of har solar X-rays observed by OSO-5, 21.8-271
Frost, R.
  Frost in Zambia in June, 1968, 21.5–189
  Wind flow over tropical Africa, 21.4–239
Frostman, Thomas O.
  Plateau Station micrometerology, 21.4–330
Fruchter, J., *see* **Bhandari, N.**, 21.7–221
Fruehling, I., *see* **Manes, A.**, 21.10–268
Fry, F. E. J., *see* **Burd, R. S.**, 21.2–618
Frye, Glenn M., Jr.
  Survey of possible sources of cosmic gamma rays above 50 MeV in the Northern Hemisphere (*with* **Wang, C. P.**), 21.10–590
  See also **Zych, A. D.**, 21.7–425
Fryer, Richard, *see* **Dollfus, A.**, 21.10–613
Fufui, E.
  Further studies on the climatic boundary dividing the Japan Sea coast and the Pacific side of Japan, 21.8–502
Fujimoto, M.
  Correlation between the densities of X-ray sources and interstellar gas (*with others*), 21.11–563
Fujino, Kazuo
  Measurement of flow down speed of melt water in snow cover, Pt. 1, 21.2–274
Fujita, Igoro, *see* **Hayashi, S.**, 21.5–10
Fujita, T.
  Present status of cloud velocity computations from the ARTS I and ARTS III satellites, 21.6–578
  See also **Izawa, T.**, 21.7–583
Fujita, Tetsuya Theodoro
  Basic problems on cloud identification related to the design of SMS-GOES spin scan radiometers, 21.12–70
  Determination of mass outflow from a thunderstorm complex using ATS III

pictures (*with* **Bradbury, D. L.**), 21.11–274
Formation and structure of equatorial anticyclones caused by large-scale cross-equatorial flows determined by ATS-1 photographs (*with* **Watanabe, K.** and **Izawa, T.**), 21.3–485
Palm Sunday tornadoes of April 11, 1965 (*with* **Bradbury, D. L.** and **Van Thullenar, C. F.**), 21.5–422; 21.9–241R

Fujiwhara, Shigemi
On the treatment of wind data in the height analysis, 21.1–232

Fukai, Rinnosuke
Changes in the chemical forms of chromium on the standing of seawater samples (*with* **Vas, D.**), 21.9–688
Spectrophotometric method for determination of cobalt in sea-water after enrichment with solid manganese dioxide, 21.1–735

Fuks-Rabinovich, M. S.
Ob odnom sposobe otsenki vliianiia netochnosti nachal'noĭ informatsii na rezul'taty prognoza, rasschitannogo pri pomoshchi razlichnykh konechnoraznostnykh algoritmov resheniia prognosticheskikh uravneniĭ [Method for evaluating the effect of inaccuracy of initial information on the results of a forecast, computed with the aid of various finite-difference algorithms of the solution of prognostic equations], 21.1–245
On the estimation of the influence of inaccurate initial data on the results of middle-range forecasts, 21.3–271
See also **Isaev, H. V.**, 21.1–220

Fukui, E.
Climate and agricultural land use in Japan, 21.8–540
Heavy torrential rainfalls in Japan, 21.8 408
Recent rise of temperature in Japan, 21.8–318
"Shuchugo-U" or the torrential rains falling in short periods within the small restricted areas in Japan, 21.8–409

Fukuoka, Y.
Soil temperature observations in western suburbs of Tokyo and their statistical studies, Pt. 1, Effect of precipitation on the change of soil temperature, 21.8–326

Fukushima, Akira
Experimental studies of the infiltration mechanism of rainwater, Pt. 1, Consideration of infiltration capacity and soil moisture fluctuation, 21.11–435

Fukushima, Naoshi
Equivalence in ground geomagnetic effect of Chapman–Vestine's and Birkeland Alfvén's electric current-systems for polar magnetic storms, 21.11–507
Spatial extent of the return current of the auroral-zone electrojet, Pt. 1, 21.7–718
See also **Kamide, Y.**, 21.7–719

Fukuta, N.
Ice nucleation in a Venus atmosphere (with **Wang, T. L.** and **Libby, W. F.**), 21.6–700
Production of organic nucleants, 21.12–190
Review of physics of ice nucleation and its application to weather modification, 21.5–572

Fulford, J. A., *see* **Litva, J.**, 21.6–685

Fuller, B. D.
[Discussion of] **J. L. Blank** and **W. R. Sill**: Response of the Moon to the time-varying interplanetary magnetic field and [Reply by] **Blank** and **Sill** (*with* **Ward, S. H.**), 21.9–493

Fullerton, Charles M., *see* **Takahashi, T.**, 21.8–654

Fung, Chung Yue
Development and management of water resources in Taiwan, Republic of China, 21.7–789

Fungaroli, A. A., *see* **Hornberger, G. M.**, 21.12–556

Fuquay, Donald M.
Lightning suppression, 21.7–109

Furmage, D. F.
Method of adjusting sunshine averages at an obstructed site taking into account obstructions and diurnal variation of sunshine, 21.12–412

Furman, D. R., *see* **Jusick, A. T.**, 21.8–183

Furman, R. W., *see* **Rasmussen, J. L.**, 21.6–328

Furman, Sh. A., *see* **Osherovich, A. L.**, 21.6–116

Furukawa, Takehiko, *see* **Asai, T.**, 21.1–577

Furusawa, Akira, *see* **Sotobayashi, T.**, 21.6–261

Furuta, Akira
Microclimatic subdivision in Gifu Prefecture, 21.10–95R

Fymat, A. L.
Theory of radiative transfer in inhomogeneous atmospheres, Pt. 1 (*with* **Abhyankar, K. D.**), 21.4–140; Pt. 2, 21.4–141

G

Gabarashvili, T. G.
  Influence of electric charges upon ice forming activity of artificial nuclei (*with* **Kartsivadze, A. I.**), 21.12–497
Gabriel, K. Ruben, *see* **Neumann, J.,** 21.8–127
Gachechiladze, R. G., *see* **Khocholava, G. M.,** 21.11–193
Gadsden, M.
  5577 Å nightglow and atmospheric movements (*with* **Marovich, E.**), 21.3–520
  Antarctic twilight observations, Pt. 1, Search for metallic emission lines, 21.10–480
  Antarctic twilight observations, Pt. 2, Sodium emission at 90°S., 21.8–577
Gaevskaia, G. N.
  Radiatsionnye potoki i luchistyĭ pritok tepla v oblachnoĭ atmosfere [The influence of clouds to the radiation flux divergence in the atmosphere], 21.2–109
  Vliianie oblachnosti na radiatsionnye potoki i puchistyĭ pritok tepal v svobodnoĭ atmosphere [Effect of clouds on radiation fluxes and radiative heat transfer in the free atmosphere], 21.10–14R
Gaevskii, V. L., *see* **Barashkova, E. P.,** 21.9–4R; 21.11–4R
Gagin, A.
  Effects of vertical exchange processes on the seasonal variation of ice nuclei concentrations, 21.12–513
  Studies of the nature of precipitation mechanisms for the physical evaluation of cloud seeding experiences, 21.7–118
  Thermal diffusion chamber for the measurement of ice nuclei concentrations (*with* **Aroyo, M.**), 21.7–60
  See also **Neumann, J.,** 21.8–127
Gagnon, Raymond M.
  Fréquences annuelles de précipitations au Québéc méridional [Annual frequency of precipitation in Southern Quebec], 21.10–385
Gaĭgerov, S. S.
  Osobennosti termobaricheskogo i vetrovogo polia v verkhneĭ atmosfere Severnogo polushariia [Features of the thermobaric and wind field in the upper atmosphere of the Northern Hemisphere] (*with* **Koshel'kov, Iu. P.** and **Tarasenko, D. A.**), 21.6–454
  Properties of the atmosphere up to 80 km, 21.12–354
  See also **Astapenko, P. D.,** 21.1–373
Gaines, E. E., *see* **Imhof, W. L.,** 21.8–275
Gaitskell, J. N.
  Submillimetre solar radiation at sea lev
  (*with* **Bastin, J. A.**), 21.8–722
Gaĭvoronskiĭ, I. I.
  Artificial low cloud and fog dissipatio
  (*with* **Krasnovskaia, L. I.** and **Solov'e**
  A. D.), 21.6–153
  Investigations of hail processes and the
  artificial modification in flat regions
  the U.S.S.R. (*with* **Geregin, Iu. A.** a
  Voronov, G. S.), 21.7–119
  Issledovaniia v oblasti vozdeĭstviĭ na obla
  i tumany [Investigations in the field
  cloud and fog modification], 21.3–298
  Modification experiments on thunde
  storms, 21.12–186
  Some results of artificial modification
  hail processes (*with* **Voronov, G. S.**
  21.9–334
  See also **Voronov, G. S.,** 21.4–302; 21.1
  77R
Galadzhii, N. M.
  O nekotorykh statisticheskikh kharakter
  stikakh turbulentnosti nad pole
  pshenitsy [Some statistical characte
  istics of turbulence over a wheat field
  21.12–468
Galbally, Ian
  Evaluation of the Ehmert technique fo
  measuring ozone profiles in the atmo
  spheric surface layer, 21.6–208
Gale, R. M.
  Canadian surface-water quality networ
  21.9–647
Gale, W. A.
  Polar temperature of Venus (*with* **Sin**
  clair, A. C. E.), 21.9–499
  Venus: an isothermal lower atmospher
  (*with* **Liwshitz, M.** and **Sinclair,**
  C. E.), 21.9–500
Galejs, J.
  Near fields and antipodal fields in the te
  restrial Earth–ionosphere waveguid
  21.6–684
Galeva, V.
  Effect of different depths of plowing o
  the aeration of a leached Chernozem
  Smolnisa (*with* **Dilkova, R.**), 21.9–463
Galin, M. B.
  Barotropnaia nelineĭnaia model' atmosfer
  na polusfere s uchetom krupnoma
  shtabnoĭ szhimaemosti [Barotropic no
  linear hemispheric model with large
  scale divergence] (*with* **Karunin,**
  B.), 21.7–86

alin, V. Ia., *see* **Neporent, B. S.**, 21.3–76
alkin, A. I.
Korotkoperiodicheskie izmeneniia vysot ionosfernykh otrazheniĭ [Short-period variations of ionospheric reflection heights] (*with* **Erofeev, N. M.**), [and English transl.], 21.5–346
all, Ruth
Directions of approach of cosmic rays for high latitude stations (*with* **Jimenez, J.** and **Orozco, A.**), 21.7–410
See also **Smart, D. F.**, 21.7–421
allagher, Brent, *see* **Graefe, V.**, 21.7–834
allagher, Dale
Snowy torrents: avalanche accidents in the United States 1910–1966, 21.1–633
allardo, Y.
Résultats hydrologiques des campagnes du Centre ORSTOM de Pointe-Noire (Congo–Brazza) devant l'Angola, de 1964 à 1967 [Hydrological results of the cruises of the Pointe Noire (Congo–Brazza) ORSTOM Center, along the coast of Angola, from 1965 to 1967] (*with others*), 21.1–721
alliher, Claiborne F.
Water accounting at pumping station S-5A in Florida, 21.8–689
almarini, Alfredo G.
Condiciones de aridez y humedad de la República Argentina [Conditions of aridity and humidity in Argentina] (*with* **Raffo del Campo, J.**), 21.8–342
Investigation of possible change in the climate of Patagonia; over-grazing in the Patagonia region: its causes and proposed solutions (*with* **Raffo del Campo, J. M.** and **Amigo, A.**), 21.8–522
Rasgos fundamentales que caracterizan el clima de la Region Chaquena de la Republica Argentina [Broad climatic characteristics of the Chaco region of Argentina] (*with* **Raffo del Campo, J. M.**), 21.8–508
al'perin, S. M.
Rezul'taty radiolokatsionno-pelengatsionnykh nabliudeniĭ za livniami i grozami s pomoshch'iu MRL-1 i sopriazhennogo s nim pelengatora groz [Results of radar and direction-finding observations on showers and storms by means of MRL-1 and a connected storm direction finder] (*with others*), 21.1–197
al'tsev, A. P.
Issledovania polosy pogloshcheniia ozona 9.6 mkm v iskusstvennoĭ atmosfere [Investigation of the 9.6-μm absorption band of ozone in the artificial atmosphere], 21.10–16R
Opredelenie funktsii pogloshcheniia polos 9.6 i 4.7 MKM ozona s uchetom ikh tonkoĭ struktury [Determination of the absorption function for the 9.6 and 4.7-μ ozone bands with the consideration of their thin structure] (*with* **Osipov, V. M.**) [and English transl.], 21.6–209
Primenenie statisticheskikh metodov k nekotorym zadacham spektroskopii [Applying statistical methods to some problems in spectroscopy] (*with* **Kozlov, V. P.** and **Rivin, M. M.**), 21.10–15R
Statisticheskie kharakteristiki prozrachnosti atmosfery, obuslovlennoĭ vodianym parom [Statistical characteristics of atmospheric transparency due to water vapor] [and English transl], 21.3–511
Galushchenko, N. G.
O polevykh issledovaniiakh vpityvaiushchei sposobnosti pochvo-gruntov [Field studies on the absorption capacities of soils], 21.12–555
Usloviia formirovaniia i poteri dozhdevogo stoka na Pridesnianskoĭ i Boguslavskoĭ stokovykh stantsiiakh [Conditions of formation and loss of rain runoff at the Pridesnian and Boguslav runoff stations], 21.8–377
Galvin, Cyril J., Jr., *see* **Urban, H. D.**, 21.11–790
Galyamin, E. P.
Formation of the thermal regime in soils on irrigated fields in permafrost regions [Transl. from Russian], 21.4–177
Gambo, K.
Characteristic feature of thermal convection in the atmosphere, Pt. 2 (*with* **Machida, E.**), 21.3–637
Treatment of the interaction between the large-scale and convective motions in relation with the cloud amount and the stability factor, 21.5–159
Gan, G. N., *see* **Mikhaĭlov, V. N.**, 21.1–775
Gandin, L. S.
Comparison of the accuracy of objective analyses produced in various countries (*with* **Lugina, K. M.**), 21.3–293; 21.6–147
Fizicheskie metody v prikladnoi klimatalogii [Physical methods in applied climatology], 21.11–447
Ob avtomaticheskom kontrole tekushcheĭ

meteorologicheskoĭ informatsii [Automatic checking of current meteorological information], 21.4–6
  Ob"ektivnyĭ analiz [Objective analysis], 21.8–91
  Statistical methods for automatic check of meteorological information: abstract, 21.9–16
  Statisticheskaia structura meteorologicheskikh polei [Statistical structure of meteorological fields], 21.9–27R
  See also **Anapol'skaia, L. E.**, 21.6–422

Gandino, Claudio
  Importanza del vapore acqueo dell'atmosfera nell'esercizio dello stabilimento Euratom di Ispra [The importance of water vapor in the atmosphere in the experiments of the Euratom establishment at Ispra], 21.3–200

Gangopadhyaya, M.
  Evapotranspiration reduction (*with* **Venkataraman, S.**), 21.5–558

Gann, E. Eugene
  Flood height–frequency relations for the plains area in Missouri, 21.2–549

Gannutz, T. P.
  Photosynthesis and respiration of plants in the Antarctic Peninsula area, 21.10–455

Gans, F., *see* **Bonhomme, R.**, 21.3–62

Garbaliauskas, Ch. A.
  O parallel'noĭ registratsii sutochnykh kolebaniĭ zapylennosti i radioaktivnosti atmosfernogo vozdukha [Simultaneous registration of daily fluctuations of the dust content and radioactivity of the atmosphere] (*with* **Mutuliavichius, V. P.**), 21.1–203

Garcés, César
  Inter-American Center for the Integral Development of Land and Water Resources (CIDIAT), 21.6–762

Garcia, Andrew W.
  Oceanographic observations in the Kara and Eastern Barents Seas, 21.2–664

García, Enriqueta
  Catalogo de estaciones meteorológicas del Estado de Aguascalientes [Catalog of the meteorological stations of the State of Aguascalientes] (*with others*), 21.6–49
  Distributión de la precipitatión en la República Mexicana [Distribution of precipitation in Mexico], 21.7–598

Garcia, Joe G., *see* **Whitehead, V. S.**, 21.7–582

Garcia, Luis E.
  Estimation of monthly streamflow in r gions with limited data, 21.9–654

García, R. V.
  Planning for the first GARP global e periment, 21.1–380

Gardner, H. R., *see* **Hanks, R. J.**, 21.9–27

Gardner, Jim
  Snow patches: their influence on mounta wall temperatures and the geomorph implications, 21.8–441

Gardner, W. R.
  Availability and measurement of soil w ter, 21.8–488
  See also **Black, T. A.**, 21.6–144

Garger, E. K.
  O perspektivnoĭ s"emke struĭ dyma gorizontal'noĭ ploskosti [Stereograph survey of smoke plumes in a horizon plane], 21.4–202

Garland, J. A.
  Condensation on ammonium sulphate pa ticles and its effect on visibility, 21.5–2

Garner, D. M.
  Geopotential topography of the ocean su face around New Zealand, 21.3–796
  Mid-shelf temperatures around New Ze land: Winter, 21.9–730
  Seasonal range of sea temperature on th New Zealand shelf, 21.4–742
  Vertical surface acceleration in a win generated sea, 21.11–777

Garnier, R.
  Trombe du 20 Aout 1966 [Tornado August 20, 1966], 21.12–388

Garrett, Edward E., *see* **U. S. Arm Tropic Test Center, Ft. Clayton, Cana Zone**, 21.5–658

Garrett, John
  Some new observations on the equilibriu region of the wind–wave spectrum, 21.4 751

Garrett, William D.
  Surface–chemical modification of the ai sea interface, 21.7–850

Garriott, O. K.
  Enhancement of ionizing radiation durin a solar flare (*with others*), 21.10–282
  See also **Risbeth, H.**, 21.8–198

Garshenin, V. F., *see* **Matusov, A. L** 21.7–661, –690

Garstang, M., *see* **Warsh, K. L.**, 21.10–794

Gartmann, J.
  Tuberkulosebehandlung im Hochgebirg Heute [Tuberculosis treatment in moun tains at the present time], 21.8–541

artner, Georg
"Alpenplan" [The Alpine Plan], 21.6–757
artsman, I. N.
Nekotorye voprosy opredeleniia maksimal'nykh raskhodov vody malykh vodotokov po metkam UVV [Some problems in the determination of maximum discharges of small water courses from high-water marks] (*with* **Ponomareva, T. G.**), 21.9–29R
Rechnaia set' i vodonosnost' territorii v usloviiakh iuga Dal'nego Vostoka [River network and water abundance of a region in the southern part of the Far East], 21.9–28R
ary, S. A., *see* **Cashion, R. E.**, 21.1–148
arz, J.
Abundances of iron and some older elements in the Sun and in meteorites, 21.11–661
ashina, S. B.
Nekotorye rezul'taty radiolokatsionnykh issledovaniĭ vremennoĭ izmenchivosti kuchevodozhdevykh oblakov v livnevoĭ i grozovoĭ stadiiakh [Some results of radar investigations of the time variability of rain cumuli in the shower and storm stages] (*with* **Sal'man, E. M.**), 21.4–116
See also **Sal'man, E. M.**, 21.3–93
asiukov, P. S., *see* **Karklin, V. P.**, 21.3–580
assmann, G. J.
Effect of the Earth's albedo on the ionospheric D-layer (*with* **Wagner, R. A.**), 21.11–186
North–south cross-sections of the equatorial electrojet in the Pacific and the effect of a solar eclipse (*with* **Wagner, R. A.**), 21.9–165
astman, I. J., *see* **Evans, J. V.**, 21.8–173
at, J. R., *see* **Assaf, G.**, 21.11–218
ates, C. T.
Water deficits and growth of herbaceous plants, 21.5–547
ates, David
Weather modification in the service of mankind: promise or peril?, 21.11–131
ates, David M.
Animal climates: where animals must live, 21.10–459
Water balance in terrestrial ecosystems, 21.5–644
See also **Porter, W. P.**, 21.6–658
ates, W. Lawrence
Effects of western coastal orientation on Rossby–wave reflection and the resulting large-scale oceanic circulation, 21.2–758
Gathman, S. G.
Atmospheric potential-gradient measurements at sea (*with* **Trent, E. M.**), 21.11–503
Electrification processes over Lake Superior (*with* **Hoppel, W. A.**), 21.7–713
Gaujard, Pierre
Contribution à l'étude de la sélection des images solaires [Contribution to the study of the selection of solar images], 21.4–493
Gaukler, Thomas A., *see* **Berg, T. G. O.**, 21.2–364; 21.5–103; 21.7–542; 21.12–539
Gaur, V. P., *see* **Pande, M. C.**, 21.2–467; 21.9–525
Gaut, Norman E., *see* **Starr, V. P.**, 21.5–409
Gautier, M., *see* **Brunelle, P. E.**, 21.10–76
Gavande, S. A.
Irrigation requirements of sugarcane in the Alajuela area of Costa Rico (*with* **Gonzalez, M. A.**), 21.4–401
Terminología moderna de emergía de agua en el sistema suelo–planta–atmósfera [Modern terminology of water energy in the soil–plant–atmosphere system] (*with* **Bornemisza, E.**), 21.2–399
Gavrilenko, N. M.
Sutochnyĭ khod i nekotorye osobennosti razvitiia konvektivnoĭ oblachnosti nad ravninnoĭ chast'iu Ikrainy [Diurnal variations and some characteristics in the development of convective clouds over different parts of the Ukraine], 21.7–564
Gavrilin, B. L.
O primitivnykh i sbalansirovannykh uravneniiakh gidrodimamiki meteorologicheskikh poleĭ [The primitive and balance hydrodynamics equations of the meteorological fields] (*with* **Monin, A. S.**) [and English transl.], 21.6–275
Gavrilova, L. A.
Kuchevaia oblachnost' i livnenye osadki na teplykh frontakh v Arktike [Cumulus clouds and shower precipitation on warm Arctic fronts], 21.4–120
See also **Borisenkov, E. P.**, 21.9–46
Gavrilova, Z. I.
K aeroklimatologii Iuzhnoĭ Afriki [Aeroclimatology of South Africa], 21.2–331
Metodika sostavleniia aeroklimaticheskikh spravochnikov iuzhnogo polushariia [Methods of aeroclimatic handbook preparation for the Southern Hemisphere], 21.2–8

O poliakh parametrov atmosfery zemnogo shara [Patterns of atmospheric parameters of the Earth], 21.2–9

Gay, Lloyd W.

[Comments on] **C. A. Federer:** Spatial variation of net radiation, albedo and surface temperature of forests and [Reply by] **Federer,** 21.3–501

Gazzola, Adriano

Durata giornaliera di temperature superiori a 25°C in corrispondenza della temperature massima [Daily duration of temperature above 25°C corresponding to maximum temperature] (*with* **Rispoli, F.** and **Rosini, E.**), 21.5–479

Primi risultati di una indagine sulla distribuzione delle precipitazioni in Italia in relazione alla situazione meteorologica [First results of an investigation of precipitation distribution in Italy in relation to the meteorological situation], 21.7–599

Il tempo in Italia nel trimestre marzo-maggio 1969 [Weather in Italy during the three-month period March through May 1969], 21.9–207R

See also **Fea, G.,** 21.8–471

Geb, Manfred

Tägliche Boden- und 850-mb-Karten der Nordhemisphäre in Jahre 1969, Teil 1–2 1.–2. Vierteljahr [Daily surface and 850-mb charts of the Northern Hemisphere, 1969, Vol. 1–2, 1st & 2nd Quarters], 21.9–166R

Tägliche Boden- und 850-mb-Karten der Nordheimsphäre im Jahre 1969, Teil 3, 3 Vierteljahr [Daily surface and 850-mb charts of the Northern Hemisphere, 1969, Pt. 3, 3d quarter (*with* **Scherhag, Richard** et al.), 21.9–170R

Gebbie, H. A.

Scattering by high cirrus: its effects on submillimetre wave determinations of atmospheric water vapor (*with others*), 21.12–489

Submillimetre astronomy: results and prospects (*with* **Burroughs, W. J.**), 21.7–747

See also **Burroughs, W. J.,** 21.2–237

Gebhart, Reiner

Chemical, atmospheric and solar effects on the meridional distribution of ozone, 21.5–327

Ein Ozonmodell für die Stratosphäre [An ozone simulation for the stratosphere], 21.6–210

Strahlung und Tubulenz in der freien A mosphäre [Radiation and turbulence the free atmosphere], 21.5–448

Gedeonov, A. D.

O 80-letnem tsikle sredneĭ mesiachnoĭ ter peratury vozdukha na severnom pol sharii [Eighty-year cycle of me monthly air temperature in the Northe Hemisphere], 21.9–30R

Ob ispol'zovanii solnechno-klimaticheski tsiklov dlia sverkhdolgosrochnogo pr noza anomaliĭ temperatury [Utilizati of solar-climatic cycles for extra lo range prediction of temperature anor alies], 21.6–142

Gehrels, Thomas

Transparency of the Jovian polar zon 21.11–581

Gehrken, H., *see* **Brenn, H.,** 21.8–535

Gel'bukh, T. M.

Rezul'taty izucheniia ispareniia s maly vodoemov Kustanaiskoi oblasti [Resu of a study of evaporation from sm reservoirs in the Kustanai region], 21. 528

Gelci, R.

Contribution à l'étude de l'interaction ent une paroi et un écoulement liquide pl [Contribution to the study of the inte action between a boundary and a tw dimensional liquid flow] (*with* **Lacrout B.**), 21.6–276

Diffraction d'un écoulement autour d' obstacle par des tourbillions liés [D fraction of a flow around an obstacle connecting eddies] (*with* **Lacroute, B** 21.4–371

Gel'fer, E. I.

Issledovanie intensivnosti sfokusirovanno lazernogo puchka, proshedshego cher turbulentnuiu atmosferu [A study of focused laser beam after passage throu the turbulent atmosphere] (*with* **Fi tova, E. I.** and **Cheremukhin, A. M** 21.10–573

Gel'freikh, G. B.

Rentgenovskoe i radioizluchenie lok nykh istochnikov na solntse [X-ray a radio emission of local sources on t Sun] (*with others*), 21.12–597

Geller, I. M.

Gigienicheskaia kharakteristika mikr klimatta eksperimenta'nykh klassny pomeshchniĭ v zavisimosti ot orientats i vozdushnogo rezhima [Hygienic fe tures of the microclimate in experiment classrooms in relation to their orientation and air regime] (*with* **Sementsova, E. A.**), 21.4–328

ller, Marvin A.
nvestigation of the lunar semidiurnal tide in the atmosphere, 21.7–703

ller, S. Iu.
Nekotorye aspekty problemy Aral'skogo moria [Some aspects of the Aral Sea problem], 21.9–680

lman, Melvyn E., *see* **Johnson, K. W.**, 21.4–412

l'mgol'ts, N. F.
O strukture, vodnosti i radiolokatsionnoi otrazhaemosti livnevykh osadkov v gornykh raionakh Zailiiskogo Alatau [Structure water content and radar reflectivity of rain shower precipitations under the mountain conditions of the Trans-Ili Ala-Tau] (*with* **Rogovin, V. I.**), 21.12–538

nadiev, N.
On cooling waterdrops submerged in a hydrophobous liquid, 21.5–573

neste, L.
Étude de phénomènes de diffusion tubulente intervenant dans les installations industrielles [Turbulent diffusion phenomena in industrial plants] (*with* **Huffenus, J. P.** and **Lambert, P.**), 21.6–284

ns, M. B.
Extreme winter temperatures in Fairbanks, Alaska, 21.10–311

ntilli, J.
Some regional aspects of southerly buster phenomena, 21.3–621
Weather and climate in Western Australia, 21.10–114R

ntry, R. A., *see* **Hundhausen, A. J.**, 21.2–144

ntry, R. Cecil
Hurricane Debbie modification experiments, August 1969, 21.10–121
Project STORMFURY, 21.3–299

okhlanian, T. Kh.
O sviazi mezhdu protsessami v troposfere i verkhneĭ stratosfere v kholodnoe polugodie [The interaction between processes in the troposphere and upper stratosphere in a cold half-year], 21.3–345

orge, A. R.
Sonic boom waveforms and amplitudes in a real atmosphere (*with* **Plotkin, K. J.**), 21.5–684

George, David H.
Environmental test chamber (*with* **Peck, R. C.** and **Atkins, E. W.**), 21.4–348

George, Douglas C., *see* **Berg, T. G. O.**, 21.5–103

George, F.
Notes on some glaciation features of Ubekendt Ejland, West Greenland, 21.5–776

George, J. J.
Role of the man in weather forecasting, 21.8–79

George, Ralph E.
Jet aircraft: a growing pollution source (*with* **Verssen, J. A.** and **Chass, R. L.**), 21.8–138

Georges, T. M.
Collisional interaction of atmospheric waves with the ionospheric F-region, 21.9–166
Short-period ionospheric oscillations associated with severe weather, 21.9–167
See also **Stephenson, J. J.**, 21.3–377; **Symposium on Acoustic–Gravity Waves in the Atmosphere, Boulder, Colo., July 15–17, 1968**, 21.5–683

Georgi, Johannes
Oscar Frölich, ein Pionier der meteoroligschen Strahlungsforschung [Oscar Frölich, a pioneer in meteorological radiation research], 21.9–149R

Georgia Inst. of Tech., Atlanta, *see* **Woodrum, A.**, 21.3–632

Georgia Inst. of Tech., School of Electrical Eng., Atlanta, *see* **Finn, D. L.**, 21.3–585

Georgian, Elefterios, *see* **Weiss, B. D.**, 21.12–93

Georgiev, S. G.
Application of the method of maximum runoff computation using the precipitation reduction curves in the Maritsa River basin, 21.8–396

Georgievskiĭ, Iu. S.
O spektral'noĭ prozrachnosti dymok v oblasti spektra ot 0.37 do 1.0 mkm [The spectral transparency of the atmospheric haze in the region of 0.37–1.0 μ] [and English transl.], 21.4–374

Georgii, Hans Walter
Beitrag zum Schwefelhaushalf aufgrund von SO_2- und Sulfatmessungen in der freien Atmosphäre [The contribution of SO_2 to the sulfur budget at ground level and sulfate measurements in the free atmosphere], 21.5–218

  CO_2 in der oberen Troposphäre und der unteren Stratosphäre [CO_2 in the upper troposphere and lower stratosphere] (*with* **Jost, D.**), 21.3–317
  Concentration of CO_2 in the upper troposphere and lower stratosphere (*with* **Jost, D.**), 21.3–348
  Contribution to the atmospheric sulfur budget, 21.12–210
  On the relation between drop size and concentration of trace elements in rainwater (*with* **Wötzel, D.**), 21.11–393
  See also **Beilke, S.**, 21.2–265

Gerard, Jean-Claude
  The occurrence of the NII 4176 Å emission line in connection with type-B auroras, (*with* **Harang, O. E.**), 21.10–528

Gerasimov, I. P., *see* **Interntl. Assoc. for Quaternary Research, 8th Congress, Paris, 1969**, 21.1–8

Gerasimov, S.
  Vŭrkhu veroiatnostno-statisticheskiia analiz na maksimalniia ottok [The probability–statistical analysis of maximum runoff], 21.4–517

Gerasimov, V. A.
  Gliatsial'nye seli i nekotorye voprosy bor'by s nimi [Glacial mud flows and some problems of their control], 21.9–667

Gerber, Hermann, *see* **Allee, P. A.**, 21.12–509

Gerber, J. F.
  Evapotranspiration of a mature citrus orchard, 21.8–350

Gerburt-Geibovich, A. A.
  Zhilishche i klimat [Dwellers and climate] (*with* **Litskevich, V. K.**), 21.7–689

Gerdel, Robert W.
  Characteristics of the cold regions, 21.3–676

Gerhardt, John R.
  Educational monographs in the atmospheric sciences, 21.3–17

Gericke, I. H., *see* **Cherry, R. D.**, 21.11–762

Gericke, M.
  Betrachtungen zu mesometeorologischen Problemen im mitteleuropäischen Raum, insbesondere zu Möglichkeiten der Anwendung numerischer Methoden im mesometeorologischen Bereich [Discussion of mesometeorological problems in Central European area, especially the possibility of the use of numerical methods in the mesometeorological range], 21.4–329

Gerks, Irvin H.
  Propagation in a superrefractive t
  sphere with a trapping surface
  21.3–391

Gerlei, O., *see* **Dezső, L.**, 21.2–471

Germain, H.
  Situation typique de petit hive
  (Heug) [Typical situation of a
  season (Heug)], 21.11–484

German, A. I.
  Izmerenie uglovogo raspredeleniia
  sivnosti korotkovolnovoĭ radiatsii
  tostrato statov in [Measurement
  angular distribution of the intens
  short-wave radiation from auto
  stratosphere balloons], 21.9–31R

German, V. Kh., *see* **Glukhovskiĭ, B.**
  21.4–656

German, V. L., *see* **Usikov, A. Ia.**, 21.

Germany (Democratic Republic).
  teorologischer Dienst
  75 Jahre, Meteorologisches Observato
  Potsdam, 1892–1967 [75th annivers
  Potsdam Meteorological Observ
  1892–1967], 21.7–2
  See also **Seehydrographischer Di**
  21.4–769

Germany (Federal Republic). Deut
  Wetterdienst
  Agrarmeteorologische Bibliographie
  [Agrometeorological bibliography,
  Ed. by **Maximilian Schneider,**
  129R
  See also **Ministry of Health**, 21.11–95

Germogenova, T. A.
  Issledovanie uglovoĭ, prostranstyenn
  spektral'noĭ struktury polia iar
  Zemli dlia kharakternoi modeli
  cheskoĭ atmosfery [Study of the a
  space and spectral structure of
  Earth brightness field for a repres
  tive model of the spherical atmosp
  (*with* **Koprova, L. I.** and **Sushke**
  T. A.), 21.7–346

Gernandt, H., *see* **Gläde, P.**, 21.11–80

Gerrish, Harold P.
  Mesoscale studies of instability pat
  and winds in the tropics, 21.5–532

Gerrity, Joseph P., Jr.
  Development of a limited area fine-
  prediction model (*with* **McPherso**
  D.), 21.3–232
  Noise analysis of a limited-area fine-
  prediction model (*with* **McPherso**
  D.), 21.12–131
  See also **Robert, A. J.**, 21.5–365

henzon, G.
ol'zovanie mostovykh preobrazovateleĭ "soprotivlenie–kod" [Use of bridge "reristance–doce" converters] (*with* **Eliasberg, A. Ia.**), 21.10–70
uchete pogreshnosti iz-za peregreva ermometrov soprotivleniia izmeritel'nym okom mostovykh skhem [Allowance for rrors caused by over-heating of resistance thermometers by the measuring urrent of bridge circuits] (*with others*), 21.5–114
hman, B. N.
nekotorykh osobennostiakh pereraspreleleniia zariazhennykh chastits v ionofere pri nalichii vetrovykh sdvigov Some peculiarities of charged particle edistribution in the ionosphere in the resence of the wind shifts] (*with* **Ignat'ev, Iu. A.**), 21.8–175
remeshchaiushchiesia ionosfernye voznushcheniia: obsor [Traveling ionopheric disturbances: review] (*with* **Grior'ev, G. I.**), 21.8–176
hon, N. D.
ects of boundary conditions of models n tracer distribution in flow through orous mediums (*with* **Nir, A.**), 21.4–70
nt, E. P.
ernyĭ anemometr [Laser anemometer], 1.3–195
on, N. C.
lio-wave propagation to the antipode *with others*), 21.7–733
mann, Werner
Berechnung des langwelligen Strahlngshaushalts der Atmosphäre bei Vorlandensein einer durchbrochenen Wolkschicht [Calculation of the long-wave adiation budget of the atmosphere in e presence of a multilayered cloud patrn], 21.10–262
Widerspruch zwischen einer Vorherge der Ahnlichkeitstheorie für die odennahen Windprofile und Messungen winbank's in Kerang, Australien Lack of agreement between prediction sed on similarity dynamic theory for oundary layer wind profiles and Swinnk's measurements at Kerang, Ausalia], 21.10–337
antsev, G. G.
dovanie elektronnoi kontsentratsii ionfery pri pomoshchi nazemnogo priema diosignalov, izluchaemykh s kosmicheskikh apparatov: obsor [Investigation of electron density in the ionosphere by means of the ground-based observations of radio signals radiated from cosmic vehicles: a review] (*with others*), 21.8–177
Radio star and satellite scintillations (*with* **Erukhimov, L. M.**), 21.6–66
Getzen, Forrest W., *see* **Ward, T. M.**, 21.12–271
Geyer, Richard A., *see* **Texas Agr. and Mechanical Univ., College Station. Dept. of Oc.**, 21.2–658
Gezentsvei, A. N., *see* **Ozmidov, R. V.**, 21.9–709
Gherzi, E.
Daily global analysis of the potential gradient (E) and of the current density (i) recorded at the Geophysical Observatory of Brebeuf College, Montreal, together with surface weather data, 21.1–132; 21.7–33
Note on the reception at Montreal of a continuous wave radio transmission on 80 kHz from the Defense Research Communications Establishment in Ottawa, Canada, 21.7–426
Ghildyal, C. D., *see* **Varma, R. K.**, 21.11–354
Ghiță, Ion, *see* **Antoniu, R.**, 21.5–760; **Buzea, N.**, 21.7–596
Ghose, G. C., *see* **Dhar, O. N.**, 21.8–395
Giacanelli, E., *see* **Berni, A.**, 21.8–439
Giannetto, Felix, *see* **De Fina, A. L.**, 21.10–118R
Gibbs, G. H., *see* **Peck, N. H.**, 21.1–139
Gibbs, W. J.
Benefits of meteorological services in Australia, 21.1–66
Strontium-90 in the Australian environment during 1968, 21.12–343
Gibson, A. J.
Flashlamp-pumped dye laser for resonance scattering studies for the upper atmosphere, 21.5–41
Gibson, J. A. B.
Nuclear radiation in the environment–beta and gamma-ray dose rates and air ionization from 1951 to 1968 (*with* **Richards, J. E.** and **Docherty, J.**), 21.4–79
Gibson, Jean, *see* **Drake, J. F., Sr.**, 21.8–267
Gibson, T. T.
Simulation of Antarctic circulations in a dishpan, 21.7–271
Gichuiya, S. N.
Onset of our short rains, 21.12–147

Gidalevich, E. Ia.
K voprosu o prirode mezhplantenogo gaza [Nature of the interplanetary gas] (*with* **Rodkina, T. E.**) [and English transl.], 21.2–415

Gidamy, M. H.
Agrometeorological activities in the United Arab Republic, 21.11–9

Giddings, Marvin, *see* **Hartman, L. M.,** 21.7–621

Gierasch, Peter
Models of the Venus clouds (*with* **Goody, R.**), 21.7–754
Radiative time constants in the atmosphere of Jupiter (*with* **Goody, R. M.**), 21.6–706

Gierhart, G. D.
Transmission loss atlas for select aeronautical service bands from 0.125 to 15.5 GHz (*with* **Johnson, M. E.**), 21.5–95

Gieskes, Joris M.
Effect of temperature on the pH of seawater, 21.7–842

Gifford, F. A., Jr., *see* **Hanna, S. R.,** 21.5–252

Giharev, A. S.
Determination of the ice-forming effectiveness of aerosols produced by explosion (*with others*), 21.12–191

Gilbert, William
Surface temperature and salinity observations at Pacific northwest shore stations for 1968 (*with* **Wyatt, Bruce**), 21.1–718
See also **Barstow, D.,** 21.8–814

Gil'denburg, V. B.
Nelieĭnoe vzaimodeĭstvie ploskoĭ elektromagnitnoĭ volny s neodnorodnym plazmennym sloem [Nonlinear interaction of a plane electromagnetic wave and an inhomogeneous plasma layer] (*with* **Kondrat'ev, I. G.** and **Markov, G. A.**), 21.9–464

Gil'denskiol'd, R. S.
Rezul'taty eksperimental'nykh issledovaniĭ zagriazneiia atmosfery v raĭone Moldavskoĭ GRES [Results of experimental studies of atmospheric pollution in the region of the Moldavian GRES (State Regional Electric Power Plant (SREPP))] (*with others*), 21.9–32R
Znachenie i nadezhnost' raschetnogo prognozirovaniia v gigiene atmosfernogo vozdukha [Significance and safety of calculated forecasting in atmospheric hygiene], 21.9–124

Giles, M.
Drift and diffusion of filament ion
in the Earth's ionosphere (*with* **N**
nelli, G.), 21.7–183

Gill, A. E.
Effect of Drake Passage on the Ant
circumpolar current, 21.4–730
Similarity theory and geostrophic a
ment, 21.1–349

Gillard, A.
On the terminology of biosphere an
sphere, 21.9–365

Gille, John C.
Spectrum and transmission of am
under Jovian conditions (*with* **Le**
H.), 21.6–707

Gillespie, C. M., Jr., *see* **Aumann,**
21.10–624

Gillett, F. C.
2.8–14-micron spectrum of Jupiter
others), 21. 11–582

Gillis, Lawrence
British Crown Colony of Fiji, 21.11–

Gilman, Peter A.
Baroclinic, Alfvén and Rossby wav
geostrophic flow, 21.5–397
Rossby-wave dynamo for the Sun,
21.9–542
See also **Coffey, H. E.,** 21.8–764

Gilmartin, Thomas J.
Laser beam broadening in atmos
propagation (*with* **Schultz, F.**
21.6–252

Gilmer, R. O., *see* **Bean, B. R.,** 21.12–

Gilmour, A. E.
Precise temperature measurements i
Cayman Trench, 21.2–216

Gilvarry, J. J.
Geometric and physical scaling of
dimensions on the Earth and
21.10–760

Gindel, Israel
Making the desert bloom, 21.4–341

Ginsburg, Th.
Statistical analysis of the three-yea
series of ozone soundings at Bo
Colorado, 21.5–328

Ginzburg, A. S.
Nekotorye opticheskie svoĭstva atmo
Venery i rezhim luchistogo ravno
[Some optical properties of the Ve
atmosphere and its radiation b
regime] (*with* **Feĭgel'son, E. M.**)
English transl.], 21.2–440
Priblizhennye metody rascheta luchi
potokov i pritoka tepla v troposfere

proximate methods for calculation of tropospheric radiative fluxes and influxes] (*with* **Feigel'son, E. M.**), 21.12–418

nzburg, B. M.

Metodika prognozov nachala ledostava na vodokhranilishchakh volzhskogo kaskada GES [Methods of forecasting the onset of freezeover in reservoirs of the Volga cascade of hydroelectric power plant] (*with* **Antipova, E. G.** and **Balashova, I. V.**), 21.2–628

O veroiatnostnykh kharakteristikakh rezhima zamerzaniia i ochishcheniia oto l'da vodokhranil lishch [Probability characteristics of the freeze-over regime and ice removal from reservoirs], 21.12–733

Veroiatnostnye kharakteristiki srokov zamerzaniia i vskrytiia rek [The probability of the characteristics of river freezing and opening], 21.5–779; 21.10–17R

nzburg, V. L.

Elementary processes for cosmic ray astrophysics, 21.10–295

Kosmicheskie luchi u Zemli i vo vselennoĭ [Astrophysics of cosmic rays], 21.9–33R

Origin of cosmic rays (*with* **Syrovatskiĭ, S. I.**), 21.10–296

orgi, Maurizio (ed.)

Attività di ricerca nel campo della oceanografia presso il C. N. R. [Oceanographic research at the Consiglio Nazionale delle Ricerche], 21.2–662

ndagini statistiche sulle aurore polari anteriori all'Anno Geofisico Internazionale [Statistical investigations on the polar auroras prior to the IGY] (*with others*), 21.2–370

stituto di Fisica dell'Atmosfera del CNR ed il progetto di sviluppo della meteorologia in Italia per l'assistenza meteorologica alla protezione civile [The Institute of Atmospheric Physics of the National Research Council (CNR) and the plan for the development of meteorology in Italy for meteorological assistance in civilian protection], 21.10–18

Progressi delle scienze dell'atmosfera e linee di svilippo della meteorologia mondiale [Progress in atmospheric science and lines of development of World meteorology], 21.6–292

Tecniche dell'infrarosso nelle applicazioni meteorologiche [Infrared techniques in meteorological applications] (*with* **Colacino, M.**), 21.2–7

Giovannelli, J. L.

Economic advantages of the French National Meteorological Service, 21.1–67

Gipson, J. R.

Influence of night temperature on growth and development of cotton, Pt. 4 (with **Joham, H. E.**), 21.6–427

Girard, A.

Profils experimentaux de l'Horizon infrarouge [Experimental infrared horizon profile of the Earth] (*with* **Lemaitre, M. P.**), 21.12–426

Giraytys, James

Data gathering systems of the 70's: a survey, 21.7–14

Requirements statements for selected data acquisition equipment (*with* **Hexter, P. L.**), 21.4–20

Girdiuk, G. V.

O metodike rascheta effektivnogo izlucheniia poverkhnosti okeana [Methods for calculating the effective radiation from the ocean surface], 21.6–25

Girgis, R. K., *see* **Hazzaa, I. B.**, 21.1–787

Girs, A. A.

Stadii epokh atmosfernoĭ tsirkuliatsii i ikh rol' v formirovanii nekotorykh fonovykh kharakteristik atmosfery i gidrosfery [Stages of the atmospheric circulation epochs and their role in the formation of some general characteristics of the atmosphere and hydrosphere], 21.11–10R

Girskaia, E. I.

Anomalii i izmenchivost' sredneĭ mesiachnoĭ temperatury vozdukha [Anomalies and variations of mean monthly air temperatures] (*with* **Klebaner, L. B.**), 21.4–162

Vzaimosviaz' anomaliĭ temperatury vozdukha v severnom polusharii v letniĭ period [Interrelationship of temperature anomalies in the Northern Hemisphere in the summer period], 21.5–476

See also **Sazonov, B. I.**, 21.5–405

Giudici, Giuseppe, *see* **Cagnetti, P.**, 21.2–84

Giurova, M., *see* **Khershkovich, K.**, 21.3–258

Giver, Lawrence P.

Laboratory studies of the visible NH_3 bands with applications to Jupiter (*with* **Boese, R. W.** and **Miller, J. H.**), 21.6–708

Giwa, F. B. A.
Response curves in the theory of atmospheric oscillation, 21.1–475

Gjessing, Dag T.
Atmospheric structure deduced from forward-scatter wave propagation experiments, 21.12–320
Influence of an irregular refractive index structure on the spatial field-strength correlation of a scattered radio wave (*with* **Börresen, J. A.**), 21.10–208
Investigation of the tropospheric fine scale properties using radio, radar and direct methods (*with* **Jeske, H.** and **Hansen, N. K.**), 21.4–47
See also **Börresen, J. A.**, 21.10–206

Gladkovskaia, A. A., *see* **Tkachev, P. G.**, 21.5–291

Gladwell, John S., *see* **Hastay, M.**, 21.6–157

Gläde, P.
O vozmozhnostiakh ispol'zovaniia nabliudeniĭ iskusstvennykh meteorologicheskikh sputnikov pri issledovanii antarkticheskikh l'dov [Possibilities of meteorological satellite observations in study] (*with others*), 21.11–80

Glagolev, Iu. A.
Srednie i ekstremal'nye znacheniia plotnosti potoka priamoĭ solnechnoĭ radiatsii v atmosfere [Mean and extreme density values of direct solar radiation flux in the atmosphere] (*with* **Tormoz, L. F.**), 21.6–355
Teoreticheskaia otsenka optimal'nykh parametrov businkovykh temorezistorov dlia radiozondov [Theoretical estimation of the optimum characteristics of bead thermistors for radiosondes], 21.5–115

Glahn, Harry R.
Climatological aspects of the Brier P-score (*with* **Jorgensen, D. L.**), 21.11–129
[Comments on] **M. G. Wurtele** and **C. Clark**: Relative efficiency of certain schema in the solution of a Poisson equation, 21.3–252
Method for predicting surface winds, 21.12–139
Operational method for objectively forecasting probability of precipitation (*with* **Lowry, D. A.**), 21.7–95
Operationally oriented objective analysis program (*with* **Hollenbaugh, G. W.** and **Lowry, D. A.**), 21.5–152
Operational subsynoptic advection model (*with* **Lowry, D. A.** and **Hollenba**
G. W.), 21.5–160
Operationally oriented small-scale
millibar height analysis program (
Hollenbaugh, G. W.), 21.5–185
See also **Hollenbaugh, G. W.**, 21.3–
Lowry, D. A., 21.4–252

Glaser, P. E.
Satellite solar power station, 21.2–110

Glass, P. E., *see* **Blackadar, A. K.**, 21.

Glass, Roy I., Jr.
Atmospheric Sciences Office turbu
system, 21.1–163

Glasser, M. E., *see* **Reiter, E. R.**, 21.3–

Glassey, E. A.
Some suggested methods for hydro
instrumentation, 21.10–682

Glasson, William A.
Inhibition of atmospheric photooxid
of hydrocarbons by nitric oxide (
Tuesday, C. S.), 21.12–239

Glazova, O. P., *see* **Shekhtman, A.**
21.2–343

Glazunov, V. G., *see* **Vasil'ev, A. A.**,
254

Glazyrin, G. E.
K raschetu gidrografa stoka pri pro
zaval'nykh ozer [Computation of
flow hydrograph for the breach of
slide lakes] (*with* **Reĭzvikh, V.**
21.9–34R
Fazovoe sostoianie osadkov v gora
zavisimosti ot prizemnoi tempera
vozdukha [Phase state of precipitati
mountains depending on surface air
perature], 21.11–390
Metod rascheta dinamiki vlazhnosti s
i vodootdachi iz nego [Method of
puting the dynamics and yield of
water] (*with* **Lifanov, P. K.**), 21.9

Gleeson, Thomas A.
[Comments on] **Edward S. Eps**
Role of initial uncertainties in pr
tion and [Reply by] **Epstein**, 21.8–1

Glen, J. W.
Implications of ice physics for problem
field glaciology, 21.6–804
See also **Jones, S. J.**, 21.5–773

Global Atmospheric Research Progra
Global Atmospheric Research Progra
21.10–17

Glock, Waldo S.
Tree growth and precipitation near F
staff, Arizona (*with* **Agerter, S.**
21.1–55

öde, P.
Estimation of attachment rate from the different echo duration of night- and daytime meteors, 21.9–517

os, E.
Estimating the accuracy of statistical flood values by means of long-term discharge records and historical data (*with* **Krause, R.**), 21.9–595

over, Kenneth M.
On the measurement of low level hurricane winds by airborne dual beam radar, 21.3–79
Simultaneous radar, aircraft and meteorological investigations of clear air turbulence (*with others*), 21.3–594

oyna, Earnest F., *see* **Shull, Roger Don,** 21.9–659

ukh, I. S.
Sviaz' vodnosti rek iuzhnoĭ poloviny Zapadno–Sibirskoĭ ravniny s tsirkuliatsieĭ atmosfery [Relationship between the water content of rivers and atmospheric circulation in the southern half of the West Siberian plain], 21.9–199

ukhov, V. G.
K voprosu raspredeleniia gololednoizmorozevykh otlozheniĭ v nizhnem 300-metrovom sloe atmosfery [Problem of the distribution of glaze–rime deposits in the lower 300-meter layer of the atmosphere], 21.7–556
O profiliakh skorosti vetra pri gololednoizmorozevykh iavleniiakh [Wind speed profiles during ice storms and frosts], 21.3–617

ukhovskiĭ, A. B.
O statisticheskom modelirovanii meteorologicheskikh poleĭ [Statistical modeling of the meteorological fields] [and English transl.], 21.5–30

ukhovskiĭ, B. Kh.
Opredelenie maksimal'nykh vysto urovnia moria maloĭ veroiatnosti prevysheniia [Determination of maximum heights of the sea level with a small excess probability] (*with* **German, V. Kh.**), 21.4–656
Veroiatnostnye kharakteristiki vetrovogo volneniia v melkovodnykh i pribrezhnykh raĭonakh moria [Probable characteristics of wind wave in shallow and coastal sea areas], 21.4–755
Zakonomernosti raspredeleniia elementov vetrovykh voln i izmeneniia volnovykh dvizhenii s glubinoi [Distribution laws for wind wave elements and for changes in wave motion with respect to depth], 21.12–778

Glushkova, N. I.
Vliianie meteorologicheskikh elementov na kharakter i intensivnost' osadkoobrazovaniia na Severnom Kavkaze [The effect of meteorological elements on the character and intensity of precipitation formation processes in the Northern Caucasus], 21.11–380

Glushkova, T. A., *see* **Prokhorenko, M. M.**, 21.10–368

Glymph, L. M.
Land treatment in agricultural watershed hydrology research (*with* **Holtan, H. N.**), 21.10–680

Gnevko, G. T., *see* **Sorkina, A. I.**, 21.11–339

Gochelashvili, K. S., *see* **Bunkin, F. V.**, 21.3–584

Gocho, Yukio
On the rainfall over the Southern Kinki District, Pt. 2, 21.12–148; Pt. 3, 21.12–149
See also **Nakajima, C.**, 21.11–381, –387

Goda, L.
Influence de l'activité humaine sur les éléments du bilan hydrologique [Influence of human activities upon components of water balance], 21.2–567

Godard, S., *see* **Donnadieu, G.**, 21.2–11; 21.3–665

Godbole, R. V.
Net terrestrial radiative heat fluxes over India during monsoon (*with* **Kelkar, R. R.**), 21.4–127
Radiation over the Himilayas (*with* **Kelkar, R. R.**), 21.4–128

Goddard, Wilson B.
Floating drag-plate lysimeter for atmospheric boundary layer research, 21.11–99

Godet, P. A. M.
Détecteur de direction pour les vents de très faible vitesse [Direction finder for winds of very low speed], 21.6–80

Godev, N.
Effect of friction and orography on changes in atmospheric pressure, 21.4–186
Influence of friction and orography on the wind distribution in the planetary boundary layer, 21.5–537
Introduction of the effects of orography and friction into methods of numerical forecasting, 21.12–132

On a method for the determination of the horizontal kinematic coefficient of turbulent exchange in rainfall distribution, 21.8–332

On rainfall distribution around the seacoast, 21.7–600

Predskazvane na minimalnata temperatura na povŭrkhnostta na pochvata s pomoshtta na statisticheski metodi [Forecasting the minimum temperature on the surface of the soil by means of statistical methods] (*with* **Takev, K.**), 21.1–238

Godin, J. U.

Multi-directional booms for meteorological towers, 21.12–82

Godman, R. M.

Periodic growth of hardwood influenced by cold weather (*with* **Mattson, G. A.**), 21.11–304

Godoli, G.

Evolution of CA plages of the CSSAR active regions (*with* **Monsignori Fossi, B. C.**), 21.1–701

Possible connection between N–S and E–W solar asymmetries (*with* **Poletto, G.**), 21.10–644

Solar research at the Catania astrophysical observatory, 21.12–618

Stellar activity of the solar type, 21.1–712

See also **Bumba, V.**, 21.1–697

Godshall, F. A., *see* **Leese, J. A.**, 21.5–97

Godske, C. L.

Future of meteorological data analysis, 21.9–17

Godson, W. L.

Some comments on the use of infrared radiometry for remote atmospheric probing, 21.6–347

Goedeke, A. D., *see* **Weinstein, M.**, 21.4–273

Göhring, Rainer

On the pseudo-π-component in sunspot spectra, 21.12–651

Götz, Gusztáv

Nagy konvekciós rendszerek üllő-részének kétsimenziós kinematikai modellje [Two-dimensional kinematic model for the anvil of large convective storms], 21.11–351

Néhány megjegyzés a zivatarok intenzitása és a légoszlop instabilitási energiája közötti kapcsolathoz [Some remarks on the relation between thunderstorm severity and the degree of potential stability], 21.10–258

See also **Balogh, Z.**, 21.3–482

Gofmekler, V. A., *see* **Gol'dberg, M.** 21.5–36

Gogorici, Ecaterina

Stadiul actual al cercetărilor agror teorologica in apicultură [Present si of agrometeorological research in a culture] (*with* **Eftimescu, M.**), 21. 460

Goĭsa, N. I.

Eksperimental'naia model' radiatsionn rezhima "srednego" sloistoobrazn oblaka [Experimental model of the ra ation regime of an "average" stratifo cloud] (*with* **Shoshin, V. M.**), 21. 281

Vertikal'nye profili korotkovolnovogo bedo v nizhneĭ troposfere [Vertical p files of the short-wave albedo in lower troposphere] (*with* **Shoshin, M.**), 21.10–270

Gokhale, G. S.

Estimate of re-entrant albedo flux o Hyderabad from the observed directio asymmetries (*with* **Kunte, P. K.** a **Sundararajan, R.**), 21.3–536

Gokhale, Narayan

Ice formation by contact nucleation, 21 545

Ice-nucleating properties of dust collect above 80 kilometers (*with* **Goold, Jr.**), 21.7–544

Mechanics of ice-nucleation induced AgI particles in a supercooled clo 21.12–498

Theory of hail growth (*with* **Rao, K. M** 21.10–406

Gol'berg, M. A.

Vliianie vtorichnogo rasseianiia na to nost' opredeleniia naklonnoi prozrac nosti po metodu ravnykh uglov [Eff of secondary scattering on the accura of determining the inclined transpare by the method of equal angles], 21.1 116

Gold, T.

General consequences of the magnetic fie dissipation theory of flares, 21.1–702

Goldberg, Edward D., *see* **Ferguson, S.**, 21.7–142

Goldberg, Harold D.

Transducer instrumentation for surfa wave measurement (*with* **Goldberg, I.**), 21.4–650

Goldberg, Leo
Ultraviolet astronomy, 21.2–394

Gol’dberg, M. S.
O ratsional’nom razmeshchenii apparatury pri issledovanii rezorbtivnogo deĭstviia atmosfernykh zagriazneniĭ [The rational arrangement of apparatus during investigation of the resorptive action of atmospheric pollutants] (*with* **Gofmekler, V. A.**) [and English transl.], 21.5–36
Problema bilogicheskogo deĭstviia atmosfernykh zagriazneniĭ i ikh gigienicheskogo normirovaniia za rubezhom [Problem of biological action of atmospheric pollutants and their hygienic standards abroad] [and English transl.], 21.5–250

Goldberg, Milton I., *see* **Goldberg, H. D.**, 21.4–650

Goldberg, R. A.
Review of theories concerning equatorial F-2 region ionosphere, 21.10–165

Golde, R. H.
Plain man’s guide to lightning protection, 21.2–361

Golden, Joseph H.
Dinner Key “tornadic waterspout” of June 7, 1968, 21.4–110

Gol’din, B. M.
Gidrologo-karstologicheskie issledovaniia na territorii zakarstovannykh basseinov Kryma [Hydrological and karst studies in the karst area of the Crimea Basin], 21.7–772

Goldman, B. J., *see* **McGinnies, W. G.**, 21.3–680

Goldman, Joseph L.
Analysis of wind field conditions adversely affecting vehicle operations (*with others*), 21.3–255
Atmospheric modeling in support of microscale variations, Pt. 2 (*with others*), 21.6–267
Empirical outflow studies (*with* **Sloss, P. W.**), 21.3–476
Intensification of warm season Grand Banks low cells, 21.6–326
Numerical model of outflow (*with* **Rosenberg, S. B.** and **Miller, F.**), 21.3–477
See also **Reifel, M. D.**, 21.3–480

Goldreich, Peter
Io, a Jovian unipolar inductor (*with* **Lynden-Bell, D.**), 21.2–430

Goldschmidt, Victor W.
Hot wire anemometer as an aerosol droplet size sampler (*with* **Householder, M. K.**), 21.7–61

Goldstein, S. J., Jr., *see* **Mast, J. W.**, 21.5–723

Goldthwait, Richard P.
Hydrologic hazards from earthquakes, 21.3–734

Golf, Walter
Contribution concerning the flow rates of rivers transporting drain waters of opencast mines, 21.2–580

Golishev, G. I.
Mass spectrometer investigation of the neutral atmospheric composition at Thumba Equatorial Rocket Launching Station (*with others*), 21.5–312

Golitsyn, G. S.
Otsenki parametrov pogranichnykh sloev v atmosferikh planet zemnoi gruppy [Estimates of boundary layer parameters in the atmospheres of terrestrial planets], 21.8–732

Gol’nev, V. Ia.
Raspredelenie radioiarkosti po disku Venery na volne 8 mm [Radio brightness distribution over the disc of Venus on the 8 mm wavelength] (*with others*), 21.10–584

Gololobov, Ia. K.
Method of studying internal waves in the Black Sea [Transl. from Russian], 21.4–777

Golovachev, V. S.
Opredelenie velichiny koeffitsienta sherokhovatosti iz formuly akad. N. N. Pavlovskogo [Determining the value of the roughness coefficient from the formula of Academician N. N. Pavlovskii], 21.11–733

Golovanov, A. I.
Determination of the dependence of soil-moisture storage on groundwater depth (*with* **Palasios, O.**), 21.10–428

Gol’tsberg, I. A.
Agroklimaticheskoe raĭonirovanie territorii administrativnykh oblasteĭ [Agroclimatic regional classification of the territory of an administrative province], 21.8–542
Issledovaniia po agro- i mikroklimatologii [Research in agro- and microclimatology], 21.9–36R
Karta sredneĭ dlitel’nosti bezmoroznogo perioda [A chart of mean duration of a period without frost], 21.3–551

Karty srednikh dat zamorozkov i dlitel'nosti bezmoroznogo perioda dlia SSSR [Charts of mean dates of frosts and periods without frosts in the U.S.S.R.], 21.6–448
Veroiatnost' nastupleniia zamorozkov [The probability of the approach of frosts], 21.7–442

Golubev, G. N.
Formirovanie rechnogo stoka v gornolednikovykh raĭonakh, po issledovaniiam v Tsentral'nom Tian'-Shane [Formation of river runoff in mountain–glacier regions, according to research in the Central Tien-Shan], 21.1–644
Pitanie rek Chili [Alimentation of the rivers of Chile], 21.2–575

Golubitskiĭ, B. M.
Raschet metodom Monte-Karlo kharakteristik svetovogo polia uzkogo puchka v mutnoĭ srede [Calculation of the narrow beam light field characteristics in a turbid medium by Monte-Carlo method] (*with* **Tantashev, M. V.**) [and English transl.], 21.4–666
Sopostavlenie nekotorykh kharakteristik svetovogo polia v rasseivaiushcheĭ srede, poluchennykh metodami fizicheskogo i matematicheskogo modelirovaniia [A comparison of several characteristics of the light field in a scattering medium obtained by methods of physical and mathematical modeling] (*with others*) [and English transl.], 21.5–357

Golubov, R. S.
Opredelenie srednego (rezul'tiruiushchego) vetra sinopticheskim sposobom v sloe 0–20 km [Determination of the mean (resulting) wind by the synoptic method in the 0–20-km layer], 21.12–484

Golubova, T. A.
Nekotorye dannye o vliianii atmosfery goroda na sostavliauishchie radiatsionnogo balansa [Some data on the influence of the atmosphere of a town on the components of its radiation balance], 21.6–348
Rezul'taty mikros"emok novoĭ zastroĭki g. Leningrada [Results of microclimatic surveys of a new building project in Leningrad] (*with* **Romanova, E. N.**), 21.7–680

Golubtsov, V. V.
O gidravlicheskom soprotivlenii i formule dlia rascheta srednei skorosti techeniia gornykh rek [The hydraulic resistance for calculating the mean velocity of mountain river flows], 21.7–811
Ob ispol'zovanii korreliatsionnykh funktsii dlia kharakteristiki prostranstvennoi neravnomernosti raspredeleniia osadkov [Use of correlation functions for characterizing spatial nonuniformities in the distribution of precipitations], 21.12–5

Gomez G., Lucia, *see* **Suarez S., J.**, 21.–529

Goncharov, L. P.
Otsenka koeffitsientov ionosfernykh reaktsii, soglasuiushchikh mezhdu soboi ekvatorial'nyi N (h)-profil'i model' neitral'noi atmosfery of Iakki [Estimation of ionospheric reaction coefficients sitting the equatorial N (h) profile and neutral atmospheric model of Jacchia] (*with* **Shchepkin, L. A.**), 21.12–298
Otsenka otnosheniia koeffitsientov dissotsiativnoi rekombinatsii α O_2 + i NO + po dannym dvukh raketnykh eksperimentov [Estimation of the ratio of the dissociation recombination coefficients of α O_2 + and α No + by the data of rocket experiments] (*with* **Shchepkin, L. A.**), 21.12–299

Goncharov, V. V., *see* **Brekhovskikh, I. M.**, 21.4–662

Gonczi, G.
Fourier spectrum analysis of long samples of solar line oscillations (*with* **Roddier, F.**), 21.6–731

Gonfiantini, R., *see* **Fontes, J. C.**, 21.7–520

Gong, Yeong
On the oceanographical character of the low temperature region in the Eastern Sea of Korea (*with* **Park, Chung Kil**), 21.9–716

Gonzales, Douglas E.
Note on the solar wind-induced drag on comets, 21.11–292

Gonzalez, D. D.
Stage-discharge characteristics of a weir in a sand-channel stream (*with others*), 21.12–710

Gonzalez, M. A., *see* **Gavande, S. A.**, 21.4–401

Gonze, R., *see* **Delys, C.**, 21.2–424, –425

Goode, J. E., *see* **Salter, P. J.**, 21.9–359

Goodison, Nicholas
English barometers, 1680–1860: a history of domestic barometers and their makers, 21.1–4

Goodman, E. A.
Experimental method of forecasting vis-

ual sequences in low visibility (*with* **Brown, L.**, 21.4–392

oodman, Philip, *see* **Hilsenrath, E.**, 21.6–211

oodman, R. H., *see* **Ommanney, C. S. L.**, 21.1–758

oodridge, James D.

Probability model of climatic cycles, 21.2–299

oody, Richard

Atmospheres of Mars and Venus, 21.11–574

Atmospheres of the major planets, 21.5–702

Ionospheres of Venus and Mars, Pt. 2, Mariner V and the Venus Ionosphere, 21.11–575

Motions in the atmosphere of Jupiter, 21.11–583

Motions of planetary atmospheres, 21.6–701

Time variations in atmospheric N_2O in eastern Massachusetts, 21.3–318

See also **Gierasch, P. J.**, 21.6–706; 21.7–754; **Hunten, D. M.**, 21.8–735

oold, James, Jr., *see* **Gokhale, N. R.**, 21.7–544

opalakrishnan, Sarada, *see* **Rangarajan, C.**, 21.12–333, –349

opasiuk, S. I.

On some properties of the velocity field in a developed active region, 21.8–755

opinath, S., *see* **Choudhuri, R.**, 21.11–502

orbunova, I. G.

Sposob rascheta skhemy polivnogo rezhima oroshaemykh zemel' po meteorologicheskim dannym [Calculation method for the irrigation regime of agricultural land from meteorological data], 21.6–630

Vliianie meteorologicheskikh faktorov na normy orosheniia [The effect of meteorological factors on irrigation norms] (*with* **Utina, Z. M.**), 21.10–555

orbushina, G. N.

K voprosu o peremeshchenii zony avroral'nogo pogloshcheniia v tsikle solnechnoĭ aktivnosti [The problem of the auroral absorption zone shifting during the solar activity cycle] (*with* **Zhulina, E. M.**), 21.2–366

rchakova, I. A., *see* **Malkevich, M. S.**, 21.4–166

See also **Turchin, V. F.**, 21.2–199

rdiunin, V. I., *see* **Seredkina, E. A.**, 1.12–524

Gordon, Arnold L.

Physical oceanography on *Eltanin* cruises 32–37, 21.4–643

Gordon, Donald C., Jr.

Some studies on the distribution and composition of particulate organic carbon in the North Atlantic Ocean, 21.12–752

Gordon, J.

Forecasting night minimum air temperature by a regression equation (with **Perry, J. D.** and **Virgo, S. E.**), 21.9–87

Gordon, L. I., *see* **Williams, P. M.**, 21.12–753

Gordon, Robert J.

C_2–C_5 hydrocarbons in the Los Angeles atmosphere (*with* **Mayrsohn, H.** and **Ingels, R. M.**), 21.5–251

Gorelik, A. G.

Izmereniia skorosteĭ dvizheniia istochnikov otrazheniia ot "iasnogo" neba [Measurement of the rate of motion of the sources of reflection from a clear sky] (*with* **Chernikov, A. A**), 21.1–112

Izuchenie struktury turbulentnogo potoka radiolokatsionnym metodom v prizemnom sloe v podfrontal'nykh oblakakh i osadkakh [Radar investigation of the structure of turbulent flow in the close-to-ground layer in subfrontal clouds and precipitation] (*with* **Patsaeva, V. A.**), 21.1–113

Nekotorye rezul'taty sovmestnykh radiolokatsionnykh i nazemnykh izmereniĭ mikrostruktury osadkov [Some results of combined radar and ground measurements of the precipitation microstructure] (*with others*), 21.1–606

O novom sposobe izmereniĭ skorosti dissipatsii turbulentnosti v oblakakh i osadkakh pri pomoshchi obychnoĭ radiolokatsionnoĭ stantsii [A new method for measuring the rate of turbulence dissipation in clouds and precipitations by means of a conventional radar station] (*with* **Mel'nichuk, Iu. V.**), 21.1–114

Opredelenie skorosti vertikal'nykh dvizheniĭ vozdukha v dozhdiakh s pomoshch'iu dopplerovskogo radiolokatora [Determination of vertical motions in rain by means of Doppler radar] (*with* **Logunov, V. F.**) [and English transl.], 21.3–84

Gorenstein, P.

Spectrum of diffuse cosmic X-rays, 1–1

keV (*with* **Kellogg, E. M.** and **Gursky, H.**), 21.2–164

Gorinov, N.
  On asymmetry in the F-2 layer, 21.4–63
  On the connection between the F-region and the Es layer, 21.5–347
  See also **Serafimov, K.**, 21.4–420

Gorner, U., *see* **Phelps, G. T.**, 21.9–243

Gornostaev, N. V.
  Priemnoe ustroĭstvo dlia avtomaticheskogo preobrazovaniia radiolokatsionnykh meteorologicheskikh signalov [Receiving device for automatic conversion of radar meteorological signals] (*with* **Efimov, G. M.**), 21.1–198

Gornung, M. B.
  Economic development activities requiring meteorological data, 21.12–10

Gorodetskiĭ, A. K.
  Radiometr dlia opredeleniia temperatury zemnoĭ poverkhnosti i oblakov [Radiometer for determining temperature of the Earth's surface and clouds] (*with others*), 21.1–168

Gorokhova, T. I.
  Primenenie metodov interpoliatsii dlia raschetov mnogoletnikh znacheniĭ temperatury na standartnykh vysotakh [The use of methods of interpolation for calculating long-range temperature values at standard altitudes], 21.9–246

Goroshko, B. B.
  Nekotorye osobennosti rasprostraneniia vrednykh primeseĭ ot vysokikh istochnikov v zavisimosti ot sinoptiko-meteorologicheskikh faktorov [Some characteristics of the propagation of noxious pollutants from high sources as a function of synoptic meteorological factors], 21.9–37R

Gorshkov, V. I., *see* **Elagina, L. G.**, 21.10–20

Gorshkova, R. I., *see* **Afanas'eva, R. F.**, 21.4–416

Goryshina, N. G.
  Usloviia teploobespechennosti pochv na severe Evropeĭskoĭ territorii SSSR [Conditions of heat storage of soils in the north of European U.S.S.R.], 21.6–461

Gossard, Earl E.
  The effect of velocity bandwidth on the cross-spectra of wave recordings from spatially separated sites, 21.7–734

Gostev, V. S.
  O mikrostrukture temperaturnogo poli okeane [Temperature microstructure the ocean] (*with* **Shvachko, R. E** 21.10–813

Goswami, A. B.
  Study of salt water encroachment in coastal aquifer at Digha, Midnapore D trict, West Bengal, India, 21.2–561

Gotō, T.
  Mechanism of heavy snowfall along Japan Sea Coast under Monsoon pr lence, 21.8–431
  Upper air current over Ōsaka Bay d ing heavy rainfall on July 9, 1967, 21 263

Gottlieb, B., *see* **Johnson, F. S.**, 21.7–161

Gottwald, Aleš, *see* **Čechová, E.**, 21.1–47

Goubet, A.
  Détermination des débits dans les rivi herbeuses [Determination of discharge weed-overgrown rivers], 21.7–806

Goudas, C. L.
  Department of Defense selenodetic c trol system and the force function of Moon (*with* **Higgins, T. P.**), 21.11–

Gough, M. W.
  Aperture–medium coupling loss in tro scatter propagation: an engineering praisal, 21.9–137

Gould, W. J.
  Moored current meter record (of) D covery Cruise 20, Nov.–Dec. 19 N.I.O. Moorings 012, 013, 014, 015, 0 21.8–820

Gouws, V. C.
  Analysis for rainfall over South Africa the period July 1, 1968 to April 1969, 21.6–596
  Weather summary for the month, 21.5–

Goverdovskiĭ, V. F.
  Avtomaticheskaia obrabotka infrakras informatsii [Automatic processing of frared information coming from weat satellites] (*with* **Panin, B. D.**), 21. 8R

Govorukha, L. S.
  Otkryt novyĭ lednikovyĭ raĭon [The covery of a new glacial region], 21.7–

Gowell, Robert W.
  Mantle aurora, 21.3–129

Goyer, Guy G.
  Explosive generation of nucleating age 21.11–138
  Hail suppression in the seventies, 21.8–

Grace, R. J., *see* **Hovey, R. L.**, 21.12–175

chev, A. I.

asseianie radiovoln nizhnei ionosferoi na chastote 30 Mgts [Radio wave scattering by the lower ionosphere at a frequency of 30 MHz] (*with* **Grebeniuk, Iu. V.**), 21.7–184

ee also **Grebeniuk, Iu. V.**, 21.8–178

cheva, M. E.

zmereniia dispersii "sil'nykh" fluktuatsiĭ intensivnosti lazernogo izlucheniia v atmosfere [Measurement of dispersion of "strong" intensity fluctuations of laser radiation in the atmosphere] (*with others*), 21.11–486

zmereniia srednego urovnia amplotudy svetovoĭ volny pri rasprostranenii v turbulentnoĭ atmosfere [Measurement of the mean amplitude level of a light wave propagating in a turbulent atmosphere] (*with others*), 21.11–487

cheva, V. P.

eograficheskoe raspredelenie koeffitsienta turbulentnosti v prizemnom sloe atmosfery letom v dnevnoe vremia [Geographic distribution of the turbulence coefficient in the lowest atmospheric layer in daytime in summer], 21.9–38R

dus, L. M.

ostroenie funktsii propuskaniia atmosfery dlia ucheta dlinnovolnovogo radiatsionnogo pritoka v zadachakh dinamicheskoĭ meteorologii [Construction of the atmospheric transmission function for taking into account long-wave radiation flux in problems of dynamic meteorology] (*with* **Niĭlisk, Kh. Iu.** and **Feĭgelson, E. M.**), 21.1–465

efe, Volker

ceanographic profiling with improved vertical resolution (*with* **Gallagher, B.**), 21.7–834

e also **Wyrtki, K.**, 21.4–725

ff, Pitter

xact turbulence theory for the Burgers equation, 21.3–426

nicher, H.

eview on problems of the physics of ice, 21.8–801

am, D. A.

lculations of atmospheric ray paths and the relative optical air mass (*with others*), 21.11–494

na, M.

evederea temperaurii minime pentru raionul Iaşi [Forecasting the lowest temperature for the Iasi District], 21.3–257

Grammatikati, O. G.

Method for studying the availability of soil moisture to plants, 21.10–429

Grammeltvedt, Arne

Survey of finite-difference schemes for the primitive equations for a barotropic fluid, 21.1–219

Grammer, J. R., *see* **Cunnington, G. R.,** 21.2–122

Grams, Gerald W.

Laser radar measurements of the aerosol content of the atmosphere, 21.6–173

Grandi, Alberto L.

Argentine Republic (*with* **Boccacci, Dino B .F.**), 21.11–95R

Granitzny, Peter

Über die Abhängigkeit der maximalen Anzahl schauerartiger Niederschlagsechos von verschiedenen Parametern und Stabilitätskriterien [Dependence of the maximum number of convective radar echoes on various parameters and stability indices], 21.3–85

Grant, I. P., *see* **Hunt, G. E.,** 21.4–427

Grant, Lewis O.

Delivery of nucleating materials to cloud systems form individual ground generators (*with others*), 21.11–145

See also **Cermak, J. E.,** 21.12–189; **Mielke, P. W., Jr.,** 21.11–139

Grant, P. J.

Rainfall patterns on the Kaweka Range, 21.7–601

Grant, S. T.

Preliminary analysis of Canadian wind shear data, 21.4–12

Grantham, D. D., *see* **Kantor, A. J.,** 21.3–86

Grantham, William D.

Analytical study of effects of severe turbulence on flight motions of a typical subsonic jet-transport airplane (*with* **Adams, M. S.**), 21.7–474

Grant-Taylor, T. L.

Groundwater in New Zealand, Pt. 1, North Island, 21.9–625

Groundwater in New Zealand, Pt. 2, South Island, 21.9–626

Grard, Réjean

Interprétation de mesures de champ électromagnétique T.B.F. dans la magnétosphère [Interpretation of measurements of the VLF electromagnetic field in the magnetosphere], 21.7–211

Grard, Robert
Crue du 25–12–1968 sur la Bourne: recherche des valeurs de crues exceptionnelles [The flood of Dec. 25, 1968 on the Bourne: research on values of exceptional floods], 21.11–431
Grasnick, H.
Estimation of the water supply from snow cover in the southern part of the German D. R. in spring 1965, 21.8–460
Grasnick, Karl Heinz
Einige Kopplungserscheinungen zwischen der oberen Stratosphäre und der Mesosphäre während stratosphärischer Erwärmungen [Some coupling phenomena between the upper stratosphere and the mesosphere during stratospheric warmings], 21.10–149
Erste Ergebnisse einer Untersuchung Uber den Warmehaushalt der Atmosphare im Gebiet des Atlantik [First results of a study of the heat budget of the atmosphere in the Atlantic Ocean area], 21.12–403
Wärmehaushalts-, Turbulenz- und Ozonforschung als Aufgabenbegiete des Potsdamer Meteorologischen Observatoriums [Research in heat budget, turbulence, and ozone as areas of responsibility of the Potsdam Meteorological Observatory], 21.7–226
Gratton, L.
Ground based observations of X-ray sources, a short review, 21.9–478
Gravenhorst, Gode
Some further studies of "doped" silver iodide as an ice nucleant (*with* **Corrin, M. L.**), 21.12–192
Graves, M. E.
Analysis of microwave occultation techniques for atmospheric soundings (*with* **Fischbach, F. F.**), 21.2–21
See also **Fischbach, F. F.**, 21.6–21
Gray, D. A.
Measurement of fine-scale atmospheric structure using an optical propagation technique (*with* **Water-Man, A. T., Jr.**), 21.10–320
See also **Mather, J. D.**, 21.6–773
Gray, L. D.
Comparison of procedures used to analyze spectroscopic observations: the 7820-Å carbon dioxide band in the spectrum of Venus, 21.12–601
See also **Schorn, R. A.**, 21.9–510
Gray, T. I., Jr., *see* **Krueger, A. F.**, 21.6–296
Great Britain. Hydrographic Dept.
Report by the Hydrographer of the Navy 1968, 21.2–647
Great Britain. Hydrographic Dept., Meteorology and Oceanographic Services Div.
Ice accretion on ships, 21.8–358
Great Britain. Meteorological Office
Annual Report, 1968, 21.9–115R
Annual Report, 1969, 21.12–17R
Frequency of wind direction and velocity (at) Blackpool, 21.11–341
Marine Observers' handbook, 21.3–41, –42
Great Britain. Meteorological Office Marine Div.
Report of work for 1968, 21.1–39
Report of work for 1969, 21.12–11
Great Britain. Ministry of Housing and Local Government
General water conditions of the United Kingdom, 21.11–95R
Great Britain. Royal Air Force
Elementary meteorology for aircrew, 21.7–3
Greated, C. A.
Improved method of flow measurement in water, 21.10–685
Greaves, James R.
Observation of sea surface temperature patterns and their synoptic changes through optimal processing of Nimbus-2 data (*with* **Willand, J. H.** and **Chang, D. T.**), 21.2–764
See also **Bowley, C. J.**, 21.4–403
Grebeniuk, Iu. V.
Statisticheskie kharakteristiki signala, rasseiannogo na neodnorodnostiakh nizhneĭ ionosfery [Statistical characteristics of a signal scattered on irregularities of the lower ionosphere] (*with* **Grachev, A. I.**), 21.8–178
See also **Grachev, A. I.**, 21.7–184
Greece. Ethnikon Asteroskopeion, Athens. Meteorologikon Institouton
Monthly Climatological Bulletin, Vol. 19, Nos. 1–12, Jan.–Dec. 1969, 21.9–204R
Green, A. E. S.
Semi-empirical cross sections and the airglow and aurora (*with* **Peterson, L. R.** and **Prasad, S. S.**), 21.7–330
Green, Christine R., *see* **Reitan, C. H.**, 21.2–286
Green, D. W.
Spectral measurement of the cosmic X-ray

background down to 2 keV (*with* **Wilson, B. G.** and **Baxter, A. J.**), 21.5–463
See also **Baxter, A. J.**, 21.9–474; **Wilson, B. G.**, 21.7–388

Green, J. S. A.
Transfer of heat and momentum by cyclone scale eddies in the general circulation, 21.3–411

Green, M. J.
Some factors affecting the catch of rain gages, 21.10–81

Green, Norman
Winter of 1968–69 in the Lower Fraser Valley of British Columbia, 21.7–443

Green, Raymond A.
Weather and circulation of May 1969: a mild month with an increase of blocking at high latitudes, 21.5–150
Weather and circulation of Nov. 1969: a circulation reversal with warming in the West, 21.10–44
Weather and circulation of March 1970: many wet and cool areas associated with retrogression and an increase in blocking, 21.11–83R

Greenberg, D. S.
Pollution control: Sweden sets up an ambitious new program, 21.7–143

Greenberg, J. M.
Possible inter-relation between interstellar and interplanetary cosmic dust, 21.6–692

Greene, J. S., Jr.
Theoretical calculations of traveling ionospheric disturbances generated by low-altitude nuclear explosions (*with* **Whitaker, W. A.**), 21.5–348

Greenfield, Richard S., *see* **Arnason, G.**, 21.1–537

Greenfield, S. M.
Weather modification research: a desire and an approach, 21.8–121

Greenland, David E., *see* **Soons, J. M.**, 21.12–462

Gregorczuk, Marek, *see* **Lesko, R.**, 21.6–429

Gregory, J. B.
Seasonal variations of electron densities below 100 km at mid-latitudes, Pt. 1 (*with* **Manson, A. H.**), 21.2–70
Seasonal variations of electron densities below 100 km at mid-latitudes, Pt. 2, Electron densities and atmospheric circulation (*with* **Manson, A. H.**), 21.1–670

Gregory, John L.
Analysis of variables affecting the fluctuation of the water table in the Blue River Valley below Tuttle Creek Reservoir (*with* **Beck, Henry V.**), 21.1–789

Gregory, Richard L.
Lunar psychology, 21.3–723

Gregory, S.
Rainfall reliability, 21.12–535

Greifinger, C., *see* **Cole, J. D.**, 21.3–578; 21.8–658

Greisen, E. W., *see* **Berge, G. L.**, 21.4–460

Grevesse, N.
Forbidden lines of Fe II in the solar photospheric spectrum (*with* **Swings, J. P.**), 21.11–664

Grey, Donald C.
Geophysical mechanisms for C^{14} variations, 21.10–211

Grichuk, V. P.
Opyt rekonstruktsii nekotorykh elementov klimata Severnogo Polushariia v Atlanticheskii period golotsena [An attempt to reconstruct several elements of the climate of the Northern Hemisphere in the Atlantic period of the holocene], 21.7–672

Griesseier, Helmut
Über die äquatoriale Unstetigkeit des Ablenkungswinkels im geostrophisch-antitriptischen Windfeld [Equatorial instability of the deflection angle in a geostrophic wind field], 21.6–277

Griffel, D. H.
Anisotropy of the solar wind (*with* **Davis, L.**), 21.7–368
Induced fields in the Moon, 21.2–412

Griffin, John J., *see* **Ferguson, W. S.**, 21.7–142

Griffin, Roy N., Jr., *see* **Arvesen, J. C.**, 21.5–437

Griffiths, John F.
Bibliography of weather and architecture (*with* **Griffiths, M. Joan**), 21.1–47

Griffiths, M. Joan, *see* **Griffiths, J. F.**, 21.1–47

Griggs, M., *see* **Ludwig, C. B.**, 21.5–267

Grigorash, Z. K.
Volny tsunami, soprovozhdavshie Anapskoe zemletriasenie 12 iiulia 1966 g. [Tsunami waves caused by the Anapa Earthquake of July 12, 1966] (*with* **Korneva, L. A.**), 21.12–797

Grigor'ev, G. I.
Generatsiia ionosfernykh vozmushcheniĭ peremennymi tokami poliarnykh shirot [Generation of ionospheric disturbances

by variable currents of polar latitudes] (*with* **Dokuchaev, V. P.**), 21.10–166
See also **Gershman, B. N.**, 21.8–176
Grigor'ev, Iu. A.
Gidrologicheskie issledovaniia [Hydrological research], 21.8–817
Gorizontal'naia tsirkuliatsiia vod v Tikhookeanskom sektore Iuzhnogo okeana [Horizontal water circulation within the Pacific sector of the Southern Ocean], 21.4–693
Grigor'ev, V. I.
K voprosu ob ekonomicheskoi effektivnosti sistemy mekhanizirovannoi obrabotki gidrologicheskoi informatsii [The problem of economic efficiency of a mechanized hydrological information processing system], 21.11–681
Predstavlenie rezul'tatov izmereniia raskhodov vody i vzveshennykh nanosov na perfolente dlia obrabotki ikh na EVM [Representation of the results of runoff measurements of water and suspended deposits on punch tapes for computer processing] (*with* **Mandych, A. F.**), 21.11–730
Skhema sozdaniia mekhanizirovannogo fonda pamiati osmovnykh gidrologicheskikh dannykh [A scheme of establishing a mechanized memory bank of basic hydrological data] (*with others*), 21.11–680
Grigor'eva, A. S., *see* **Drozdov, O. A.**, 21.7–262, –611
Grigor'eva, L. K.
Raschet summarnogo ispareniia i zapasov produktivnoĭ vlagi v metrovom sloe pochvy na sel'skokhoziaĭstvennykh poliakh [Computation of evapotranspiration and of productive moisture supply in the upper meter of soil in agricultural fields], 21.2–242
Grigor'eva, Z. N.
Spektral'nye i tsvetovye kontrasty na diske Iupitera [Spectral and color contrasts on the disk of Jupiter] (*with* **Priboeva, N. V.**), 21.11–584
Grigorevskiĭ, V. M.
O tormozhenii vrashcheniia sputnika magnitnym polem Zemli [Braking of satellite rotation by the Earth's magnetic field] (*with* **Shmelev, G. M.**) [and English transl.], 21.3–152
Grigoriu, Alex
Măsurarea acustică simultană a vînului, turbulentei si temperaturii aerului [Simultaneous acoustical measurement of wind, turbulence, and air temperature], 21.8–23
Grigorov, N. C.
K voprosu ob energeticheskom spektre neitronov v oblasti energii 10^{11}–10^{12} ev–na urovne moria [Energetic neutron spectrum in energy region of 10^{11}–10^{12} eV at sea level] (*with* **Mamidzhanian, E. A.**), 21.8–304
Grigull, U., *see* **Hahne, E.**, 21.6–805
Grillo, Joseph N., *see* **Spar, J.**, 21.8–102
Grim, Paul J.
Heat flow measurements in the Tasman Sea, 21.4–749
SEAMAP deep-sea channel, 21.1–720
Grimes, Annie E.
Annotated bibliography of climatic maps of Burma, 21.5–661
Annotated bibliography of climatic maps of Cambodia, 21.2–295
Annotated bibliography of climatic maps of Ceylon (Supplement), 21.9–130R
Annotated bibliography of climatic maps of Laos, 21.9–131R
Annotated bibliography of climatic maps of the republic of Vietnam, 21.9–132R
Annotated bibliography on methods of cloud-height measurement, 1950–1968, 21.9–133R
Annotated bibliography on methods of visibility measurement, 1950–1969, 21.9–134R
Grimm, Frankdieter
Abflussverhalten in Europa [Runoff regime in Europe], 21.4–515
Grin, A. M.
Dinamika vodnogo balansa na primere Tsentral'no-Chernozemnogo raĭona [Water balance dynamics as illustrated by the Central Black Soil region], 21.11–358
Osnovy perspektivnogo planirovaniia kompleksnogo ispol'zovaniia i okhrany vodnykh resursov [Foundations of long-term planning of the complex use and conservation of water resources] (*with* **Koronkevich, N. I.**), 21.11–695
Polevye eksperimental'nye issledovaniia vliianiia sel'skogo khoziaistva na stok [Experimental field studies of the effect of agriculture on runoff] (*with others*), 21.11–424
Vnutrizonal'nye osobennosti vodnogo balansa [Intra-zonal water balance features] (*with others*), 21.11–357

Grindley, J.
Some highlights of 1968 rainfall over Britain, 21.8–385
Grinevich, A. G., *see* **Grinevich, G. A.**, 21.2–581
Grinevich, G. A.
Compositional modelling of possible combinations of the structural characteristics of the flow processes of seasonal and yearly development for prognosticating extremal hydrological situations (*with* **Petelina, N. A.** and **Grinevich, A. G.**), 21.2–581
Gringauz, K. I.
Maloenergichnaia plazma v magnitosfere Zemli: Obzor [Low-energy plasma in the magnetosphere of the Earth: a review], 21.8–211
Sravnitel'nye kharakteristiki ionosfer planet zemnoi gruppy: Marsa, Venery i Zemli [Comparative characteristics of the ionosphere of the planets of the terrestrial group: Mars, Venus] (*with* **Breus, T. K.**), 21.12–300
Gringorten, Irving I.
Test of the model of duration on upper-air windspeeds at Cape Kennedy, Florida, and Santa Monica, California, 21.2–233
Grin'ko, N. I., *see* **Alabushev, V. A.**, 21.8–481
Grinval'd, D. I.
Balans energii turbulentnosti i estestvennom ruslovom potoke [Turbulence energy balance in streams with natural river beds] (*with* **Shnaïdman, V. A.**), 21.10–761
Grishin, I. N.
Morphological investigation of noctilucent clouds on July 3–4, 1967, 21.10–484
Grivel, F.
Anomalías en el nivel medio del mar en Acapulco, Gro., México [Anomalies of the mean sea level of Acapulco, Guerrero, Mexico], 21.2–698
Grobecker, Alan J.
Earth and atmosphere shine backgrounds, 21.12–427
Grobman, W. D.
Electrostatic potential distribution of the sunlit lunar surface (*with* **Blank, J. L.**), 21.9–491
New conclusions concerning the observation of faint sources from a sunlit spacecraft (*with* **Buffalano, C.**), 21.3–711
Groenevelt, P. H.
Water content measurement with 60 keV gamma ray attenuation (*with* **De Swart, J. G.** and **Cisler, J.**), 21.1–652
See also **Bolt, G. H.**, 21.1–649
Gronstal, P. T., *see* **Palmeira, R. A. R.**, 21.7–417
Grose, P. L., *see* **Warsh, K. L.**, 21.10–794
Grosheva, N. M.
O vliianii magnitnogo skloneniia na povedenie F2-sloia i sviazi kriticheskikh chastot foF2 v dvukh magnitno-sopriazhennykh tochkakh [Influence of magnetic declination on the behavior of the F-2 layer and on the relations of critical foF2 frequencies in two magnetically conjugated points] (*with* **Pisareva, V. V.**), 21.12–301
Gross, B.
Plasma terminology (*with* **Gryoz, B.** and **Miklóssy, K.**), 21.1–5
Gross, J., *see* **Von Zahn, U.**, 21.3–326; 21.12–281
Gross, James, *see* **Schwalb, A.**, 21.4–9
Gross, M. Grant
Movement of near-bottom waters on the continental shelf off the northwestern United States (*with* **Morse, B.** and **Barnes, C. A.**), 21.6–844
See also **Conomos, T. J.**, 21.1–755
Grosskopf, J.
Experimental methods for the investigation of the reception field for tropospheric scatterpropagation, 21.9–138
Grossman, R. L., *see* **Marlatt, W. E.**, 21.6–468
Grossmann-Doerth, Ulrich
On astronomical seeing: the single Schlieren model, 21.12–619
Grosval'd, M. G.
Glubokoe burenie l'da lednikovykh pokrovov Grenlandii i Antarktidy [Deep drilling of the ice of glacial covers of Greenland and Antarctic], 21.12–725
Shel'fovye ledniki (Ledniki-shel'fy): opredelenie, terminologiia, klassifikatsiia [Shelf glaciers (glacier-shelves): determination terminology, classification] (*with others*), 21.12–723
Grote, Heinz H.
Presentation of errors of a four-dimensional parameter in a single plane, 21.11–18
Groth, Wilhelm
Simulation von physikalisch-chemischen Vorgängen in der höheren Atmosphäre [Simulation of physical processes in the upper atmosphere], 21.5–105

Groulz, P. R., *see* **Magno, P. J.,** 21.12–335
Grove, A. T.
Landforms and climatic change in the Kalahari and Ngamiland, 21.4–325
Groves, G. V.
Atmospheric structure of the Earth, Venus and Mars, 21.12–203
Determination of air density, temperature and winds at high altitude, 21.11–32
Review of atmospheric structure in the region 30–100 km, 21.6–199
Tidal oscillations and gravity waves, 21.6–517
Wind models from 60 to 130 km altitude for different months and latitudes, 21.7–504
Growitz, D. J., *see* **Signor, D. C.,** 21.9–643
Grozier, Richard U.
Raft for evaporation–measurement equipment, 21.10–54
Grün, E.
Penetration studies of iron dust particles in thin foils (*with* **Rauser, P.**), 21.10–636
Grünewald, Günther, *see* **Walden, H.,** 21.11–17
Grundke, Günter
Probleme des Einflusses meteorologischer Grössen auf Waren [Problems of the effect of meteorological conditions upon goods], 21.6–653
Grunow, Johannes
Nebelniederschlag im Hochgebirge [Fog-precipitation in a high mountain-chain] (*with* **Tollner, H.**), 21.4–284
Grushevskii, M. S.
Flood plain influence on flood wave propagation along a river, 21.10–713
Grushin, S. I.
Ob odnoĭ vozmozhnoisti umen'sheniia pogreshnosti izmeritel'noĭ sistemy [One possibility of lowering the error in measuring systems], 21.8–15
See also **Afinogenov, L. P.,** 21.8–25
Grushka, I. G.
Issledovania agrometeorologicheskikh usloviĭ formirovaniia urozhaia ozimogo iazhmenia na Ukraine [Study of agrometeorological conditions of the formation of winter barley in the Ukraine], 21.2–321
Metod dolgosrochnogo prognoza sredneoblastnoĭ urozhaĭnosti ozimogo iachmenia na Ukraine [Long-range forecasting of the mean regional productivity of winter barley in the Ukraine], 21.2–322
O raschete ozhidaemykh srokov sev ozimoi pshenitsy i otsenke ego effektiv nosti [Calculations of the expected date of sowing winter wheat and evaluatio of its effectiveness] (*with* **Dmitrenko V. P.**), 21.12–159
Gruza, G. V.
Chislennyĭ eksperiment po veroiatnostnom prognozu tipa temperaturnogo rezhima v techenie piati dneĭ [Numerical experiment on the probability forecast of the type of temperature regime in the cours of five days] (*with* **Ran'kova, E. Ia.**) 21.3–279
O printsipakh avtomaticheskoĭ klassifikatsii meteorologicheskikh ob"ekto [Principles of automatic classification o meteorological conditions] (*with* **Ran'kov, E. Ia.**), 21.10–99
Opyt primeneniia statisticheskikh glavnyk komponent (estestvennykh ortogonal'nykh sostavliaiushchikh) v tekhnike korreliatsionnogo prognoza [Experimental application of statistical main components (natural orthogonal components) in the technique of correlation forecasting], 21.3–280
Gruzinov, V. M.
Drift circulation in the zone of the subarctic hydrological front [Transl. from Russian], 21.4–733
Peremeshivanie vod v severnoĭ chasti Tikhogo okeana [Mixing of water in the North Pacific Ocean], 21.9–39R
Grycz, B., *see* **Gross, B.,** 21.1–5
Grygar, J.
Simultaneous radar and optical observation of meteors at Ondřejov in 1962 (*with* **Kohoutek, L.** and **Plavcova, Z.**), 21.9–518
Grzędzielski, S.
Solar-wind model including the effects of rotation, magnetic fields, and anisotropic heat conduction, 21.2–140
Gualtieri, G.
Vertical gradient of electro-atmospheric potential at Macerata, Italy (*with* **Murri, A.**), 21.4–377
Guatemala. National Commission [to International Conference on Water for Peace]
General conditions of Guatemala, 21.11–95R
Gubaeva, S. N., *see* **Petrova, R. S.,** 21.4–600
Gubanova, S. I.
K uchetu prognosticheskoĭ informatsii v

skheme ob"ektivnogo analiza poleĭ AT_{850}, AT_{500} i AT_{300} [Considering forecasting information in the objective analysis scheme of the 850, 500 and 300 mb fields] (*with* **Chernogorov, D. V.**), 21.1–214

Gubbay, J.
Trans-Pacific interferometer measurements at 2,300 MHz, 21.4–463

Gubkin, N. M.
Vliianie prilivov na dinamiku beregov Shantarskikh ostrovov [Influence of tides on the dynamics of the shores of the Shantar Islands], 21.2–800

Gubola, Mária
A légszennyeződés szagparaméterének kérdéseiről [The problems of the odor parameter of air pollution], 21.2–52

Gucker, Frank T., *see* **Tuma, J.**, 21.12–115

Gudilin, I. S.
Taezhnyĭ "ostrov" v sukhoĭ stepi Iuzhnoi Tuvy [The Taiga "island" in the dry steppe of Southern Tuva] (*with* **Mikhailov, N. I.**), 21.7–818

Gudkov, G. D.
Naturnye issledovaniia vetrovykh techeniĭ Lukoml'skogo ozera i sopostavlenie ikh s raschetnymi velichinami [Investigations of wind currents at the Lukomol'skoye Lake under natural conditions and their comparison with computed values], 21.6–797

Gudkovich, Z. M.
Antitsiklonicheskaia tsirkuliatsiia l'dov v Arkticheskom basseĭne i dreĭf stantsii "Severnyĭ Polius-8" [Anticyclonic circulation of ice in the Arctic Basin and the drift of North Pole-8 Station], 21.9–40R
See also **Volkov, N. A.**, 21.5–392

Gudmundsson, Gudmundur, *see* **Stefánsson, U.**, 21.3–29

Guelin, P.
Milieux poreux non saturés et théorie des mixtures [Unsaturated porous materials and theory of mixtures], 21.4–551

Guillot, P.
La méthode de Gradex pour le calcul de la probabilité des crues à partir des pluies [The Gradex method for calculating the probability of floods from rainfall] (*with* **Duband, D.**), 21.9–596
See also **Joachim, M.**, 21.8–182

Guinard, N. W.
Remote sensing of the sea and sea ice, 21.12–45

Gul'el'mi, A. V.
Propagation of slow waves in a moving plasma, 21.1–665

Gulin, E. P.
Korreliatsiia volnovogo polia, rasseiannogo vzvolnovannoi vodnoi poverkhnost'iu [Correlation of a wave field scattered by ruffled water surface], 21.12–44

Gulinck, M.
Underground water resources of Belgium, 21.9–627

Gulkis, S.
Microwave spectrum of Saturn (*with* **McDonough, T. R.** and **Craft, H.**), 21.5–694
See also **Carr, T. D.**, 21.11–580

Gullion, Edmund A.
Uses of the seas, 21.1–26

Gulubov, Mikh.
Obrabotka i interpretatsiia na dannite ot opitni vodocherpeniia v dvusloini naporni vodonosni khorizonti [Analysis of pumping tests data in two-layered artesian aquifers], 21.7–796

Guminetskiĭ, S. G., *see* **Rvachev, V. P.**, 21.2–344

Gunin, P. D.
Novye dannye o raspredelenii vlazhnosti pochvogruntov v Vostochnykh Karakumakh [New data on the distribution of moisture in soil–ground in the Eastern Karakumy] (*with* **Darymov, V. Ia.**), 21.10–430

Gupta, D. K., *see* **Banerji, S.**, 21.8–407; **Datta, R. K.**, 21.11–386

Gupta, Jagdish Chandra, *see* **Chapman, S.**, 21.5–735

Gupta, R. Sen
Biochemical relationships and inorganic nitrogen equilibrium in semi-enclosed basins, 21.4–684

Gupta, S. N.
Statistical correlation of Himalayan and Bundelkhand basin characteristics with flood flows (*with* **Bhattacharya, A. P.** and **Jindal, S. R.**), 21.9–584

Gupta, S. P., *see* **Prakash, S.**, 21.10–181

Gur, Y., *see* **Tadmor, J.**, 21.8–222

Gural'nik, Izrail' Isoifovich
Sbornik zadach i uprazhneniĭ po meteorologii [Collection of problems and exercises in meteorology] (*with* **Mamikonova, S. V.** and **Polkovnikov, M. A.**), 21.5–9

Gurevich, A. V.

Dinamika neodnorodnosteĭ bystrykh elektronov i ionov v magnitosfere Zemli, I [Dynamics of inhomogeneities of fast electrons and ions in the magnetosphere of the Earth, Pt. 1] (*with* **Tsedilina, E. E.**), 21.8–272; Pt. 2, 21.8–273

Ionospheric aerodynamics (*with others*), 21.11–187

Nelineĭnaia dinamika neodnorodnosti bystrykh elektronov v magnitosfere [Nonlinear dynamics of the inhomogeneity of high speed electrons in the magnetosphere] (*with* **Tsedilina, E. E.**), 21.9–223

Nelineĭnyĭ rezonans dlia modulirovannykh radiovoln v plazme (ionosfere) [Nonlinear resonance for modulated radiowaves in a plasma (ionosphere)] (*with* **Shvartsburg, A. B.**), 21.8–706

Gurnett, Donald A.

Initial observations of VLF electric and magnetic fields with the Injun-5 satellite (*with others*), 21.4–383

Observations of 8-amu/unit charge for ion cyclotron whistlers (*with* **Rodriguez, P.**), 21.11–543

Gursky, H., *see* **Gorenstein, P.**, 21.2–164

Gurvich, A. S.

Opredelenie plotnosti vozduklha na vysotakh 40–70 km po sobstvennomu radioizlucheniiu kislorodo [Air density determination on the heights of 40–70 km by microwave radiation of atmospheric oxygen] [and English transl.], 21.6–161

Otsenka kharakteristik melkomasshtabnoi turbulentnosti v atmosfer Venery po fluktuatsiiam radiosignalov mexhplenetnykh stantsii "Venera-4" i "Mariner-5" [Estimate of the small scale turbulence parameters in the Venus atmosphere by radiosignal fluctuations of "Venera-4" and "Mariner-5"], 21.9–501

See also **Basharinov, A. E.**, 21.12–69; **Gracheva, M. E.**, 21.11–486, –487

Gusev, V. D.

Fluktuatsii napravleniia rasprostraneniia elektromagnitnykh voln v turbulentnoĭ girotropnoĭ srede [Fluctuations of propagation direction of electromagnetic waves in a turbulent gyrotropic medium] (*with* **Vlasova, O. K.**), 21.10–572

Polarizatsiia rasseiannykh elektromagnitnykh voln [Polarization of dispersed electromagnetic waves] (*with* **Berezin, Iu. V.** and **Biriulin, I. A.**), 21.8–591

Guseva, L. N.

Voprosy interpretatsii infrakrasnykh izo brazheniĭ oblachnosti s meteorolog cheskikh sputnikov Zemli [Problems c interpretation of infrared pictures c cloudiness taken from weather sate lites] (*with others*), 21.11–11R

Gush, H. P.

Emission spectrum of the night airglo from 2 to 4 μm, 21.8–247

Gushchenkov, E. M.

Tikhookeanskie vody v Arkticheskor basseĭne [Pacific Ocean waters in th Arctic Basin], 21.11–12R

Gushchin, G. P.

Ob atmosfernom ozone [Atmospher ozone], 21.9–41R

Gushlia, A. V.

Izmenchivost' godovykh osadkov na E ropeĭskoĭ territorii SSSR [Changeabilit of annual precipitation in the Europea Territory of the U.S.S.R.], 21.5–623

Gussman, Robert A.

On the aerosol particle slip correction fac tor, 21.6–174

Gustafson, Arthur F.

Eastern North Pacific tropical cyclone 1969, 21.10–246

Gustafsson, Georg

Spatial and temporal relations betwee auroral emission and cosmic noise ab sorption, 21.10–509

Gustafsson, Yngve

Influence of topography on groundwate formation, 21.4–571

See also **Eriksson, E.**, 21.4–541

Guterman, I. G.

Vertikal'nye sdvigi vetra [Vertical win shears], 21.11–347

Guth, V.

Perturbations of the line of nodes of th Leonids during the years 1866–196 21.11–615

Gutiev, A. V., *see* **Zalikhanov, M. Ch** 21.9–333

Gutkin, A. M.

Adsorptive mechanism for loss of th Moon's atmosphere (*with others*) [Transl. from Russian], 21.5–700

Gutman, L. N.

O nestatsionarnykh zadachakh mezome teorologii [Nonstationary problems c mesometeorology] (*with* **Perov, V. L.** 21.10–243

Gutop, Iu. V.
  Ob elektromagnitnom pole, voznikaiushchem pri ionizatsii vozdukha tochechnym istochnikom gamma-izlucheniia v elektricheskom pole Zemli [An electromagnetic field arising from air ionization by a point γ-source in the electric field of the Earth] (*with* **Medvedev, Iu. A.**), 21.8–599
Gutry-Korycka, Małgorzata
  Z zagadnień termiki płytkich wód gruntowych [The problems of thermal conditions in shallow groundwater], 21.10–724
Gutshabash, S. D.
  Perenos izluchenii v klinoobraznoĭ oblasti [Radiative transfer in a cuneiform region] [and English transl.], 21.6–376
Guttman, Nathaniel B., *see* **Crutcher, H. L.**, 21.1–237
Guy, H. P., *see* **Rathbun, R. E.**, 21.10–684
Guyot, G.
  Diffusion turbulente au-dessus et à l'intérieur d'un couvert végétal [Turbulent diffusion in and above vegetation], 21.6–485

H

Haas, H. J., *see* **Willis, W. O.**, 21.10–551
Hablutzel, Benjamin C., *see* **Krause, Fritz R.**, 21.10–21
Haefeli, R.
  Some results of the International Glaciological Expedition to Greenland 1958–1960, 21.6–800
Haefeli, Rudolph C.
  Effects of atmosphere, wind, and aircraft maneuvers on sonic boom signatures, 21.2–392
Hänel, Gottfried
  Jet impactor operational conditions for compatible measurements, 21.12–107
  Messung des realteils des mittleren Brechungsindex und der mittleren Dichte von Proben atmosphärischer Aerosolteilchen [Measurement of the real portion of the mean refractive index mean bulk density in atmospheric aerosol particle probes], 21.5–26
Haerendel, Gerhard
  Highly irregular artificial plasma clouds in the auroral zone (*with others*), 21.8–179
  Messung elektrischer Felder in der Ionosphäre mit küngstlichen Plasmawolken [Measurement of electric fields in the ionosphere with artificial plasma clouds], 21.7–185
Häuser, Wilfried
  Ein optimales Verfahren der Reihendarstellung nordhemisphärischer absoluter Topographien der 500-mb-Fläche [An optimal procedure for the series representation of absolute topographies of the 500-mb surface in the Northern Hemisphere], 21.5–500
Haffner, J. W.
  Calculated dose rates in Jupiter's Van Allen belt, 21.11–585
Hagan, P. J., *see* **Jeffery, P. M.**, 21.5–224
Hage, K. D.
  Meteorology in Canada: a reaction to the Rose Report, 21.1–68
  See also **Entrekin, H. D.**, 21.3–288
Hagemann, R., *see* **Lorius, C.**, 21.8–427
Hagg, E. L.
  Interpretations of topside sounder ionograms (*with* **Hewens, E. J.** and **Nelms, G. L.**), 21.10–167
  See also **Muldrew, D. B.**, 21.10–176
Haggart, Charles
  Joint Arctic weather stations, 21.9–25
Haglund, George Thomas
  Study of a severe local storm of April 16, 1967, 21.3–444
Hagn, George H.
  HF atmospheric radio noise on horizontal dipole antennas in Thailand (*with* **Chindahporn, Rangsit** and **Yarborough, John M.**), 21.9–454
Hahn, Richard B., *see* **Allen, Herbert E.**, 21.11–763
Hahne, E.
  Some experiments on the regelation of ice (*with* **Grigull, U.**), 21.6–805
Haĭ, Ch'ang Than, *see* **Mirkotan, S. F.**, 21.4–66
Haigh, Peter A., *see* **Johnson, S. R.**, 21.12–573
Haines, Donald A.
  Solar radiation and sunshine duration relationships computer program and flow chart description (*with* **Baker, Donald G.**), 21.1–437
Hais, Alan B., *see* **Ragan, Robert M.**, 21.9–580
Haise, Howard R.
  Automation of surface irrigation systems (*with* **Kruse, E. G.**), 21.8–688
Hajduk, A.
  Factors affecting radar–meteor echo durations, 21.9–471

Hajek, Ernst R.
Observaciones microclimaticas en el refugio "Copper Mine," Isla Robert, Shetland del Sur [Microclimatic observations in the Copper Mine shelter on Robert Island, South Shetland] (*with* **Saiz, Francisco**), 21.9–380
Hakodate, Japan. Marine Observatory
Report of the sea ice observations in the Okhotsk Sea and adjacent Sea of Hokkaido (1969), 21.9–191R
Halem, Milton
Analysis of GARP data requirements (*with* **Jastrow, Robert**), 21.8–24
See also **Charney, J.**, 21.5–29
Hales, Jeremy M.
The rate of reaction between dilute hydrogen sulfide and ozone in air (*with* **Wilkes, James O. and York, J. Louis**), 21.7–144
Halevy, E., *see* **Dincer, T.**, 21.8–782
Halhuber, M. J.
Kardiologische Probleme in der Hochgebirgs-Klimaheilkunde [Cardiological problems in mountain climate therapy], 21.8–543
Hall, J. Michael
Spectra of internal waves and turbulence in stratified fluids, Pt. 2, Experiments on the breading of internal waves in a two-fluid system (*with* **Pao, Yih-Ho.**), 21.12–807
Hall, J. S.
Polarization measures of Jupiter and Saturn (*with* **Riley, L. A.**), 21.7–758
Hall, L. A.
Solar-cycle variation of extreme ultraviolet radiation (*with others*), 21.3–508
See also **Hinteregger, H. E.**, 21.7–159
Hall, M. J.
Design criteria for laboratory catchment experiments, with particular reference to rainfall simulation (*with* **Wolf, P. O.**), 21.2–526
Hall, Martin P. M.
Correlation of radio field-strength on trans-horizon paths with radio refractive index profiles near the path centers, 21.9–139
Statistics of tropospheric radio-refractive-index soundings taken over a 3-year period in the United Kingdom (*with* **Comer, C. M.**), 21.10–209
Hallett, J.
Laboratory investigation of wave motion in a two density fluid, 21.7–227
Laboratory study of ice nucleating ability of mineral particulates, 21.4–263
Rotor-induced dust devil, 21.3–471
See also **Anderson, B. J.**, 21.1–557 **Johnson, D. A.**, 21.1–560; **Roberts, P.**, 21.1–563
Hallgren, D. S., *see* **Hemenway, C. L.**, 21.12–612
Halliday, E. C., *see* **Fay, J. A.**, 21.3–597
Halliday, I.
Influence of exposure duration and trail orientation on photographic meteor spectra, 21.11–619
Halpern, David
Observations of short period internal waves in Massachusetts Bay, 21.4–778
Halpern, P., *see* **Wang, H. H.**, 21.5–180
Haltiner, George J.
Numerical weather prediction, 21.3–233
Hamann, S. D., *see* **Edwards, G. R.**, 21.7–543
Hamberger, S. M., *see* **Friedman, M.**, 21.10–655; 21.11–629
Hamburg. Deutsches Hydrographisches Institut
Spektren von Stromungsmessungen in der Deutschen Bucht im Periodenberich von 3 bis 110 Studen während des Winters 1965/66 [Spectra of current measurements in the Bay of Heligoland made within a 3–110 hr period during the winter of 1965–66], 21.11–770
Hamburg. Seewetteramt
Anweisung für das Anstellen und Verschlüsseln von Wetterbeobachtungen an Bord deutscher Schiffe. In Verbindung mit der Schlüsseltafel für die Eintragungen der Wetterbeobachtungen auf See [Manual for making and coding weather observations aboard German ships. For use in connection with the coding directions for entry of weather observations at sea], 21.9–102R
Meteorologische Beobachtungen von deutschen Feuerschiffen der Nord- und Ostsee (Bundesrepublik), 1965 [Meteorological observations from German light ships in the North and Baltic Seas, Federal Republic, 1965], 21.9–179R
Meteorologische Beobachtungen von deutschen Feuerschiffen der Nord- und Ostsee (Bundesrepublik), 1966 [Meteorological observations from German light ships in the North and Baltic Seas, Federal Republic, 1966], 21.9–180R

Hamielec, A. E., *see* **LeClair, B. P.**, 21.7–547

Hamilton, Glenn D.
  Monthly combined wave height means and standard deviations and combined wave and modal directions (*with* **Corkrum, R. C.**), 21.1–745

Hamilton, P. M.
  Lidar measurement of backscatter and attenuation of atmospheric aerosol, 21.1–295

Hamilton, Robert E.
  Review of use of radar in detection of tornadoes and hail, 21.8–26
  See also **Miller, Marvin E.**, 21.7-298

Hamilton, W. C.
  Deutron arrangements in high-pressure forms of ice (*with others*), 21.6–806

Hamilton, Wayne L.
  Microparticle deposition on polar ice sheets, 21.10–408

Hammad, Hammad Y.
  Future of groundwater in African Sahara Desert, 21.7–794

Hammond, R. Philip
  Desalted water for agriculture, 21.8–833

Hamon, B. V.
  Temperature structure in the upper 250 meters in the East Australian Current area, 21.2–748
  Time and space scales of variations in the East Australian Current, from merchant ship data (*with* **Kerr, J. D.**), 21.2–757

Hamuro, M.
  Precipitation bands of typhoon Vera in 1959, Pt. 1 (*with others*), 21.6–337

Hanafusa, Tatsuo, *see* **Ishizaki, Hatsuo**, 21.10–332

Hanan, Joe J.
  Introduction of hydroponics in Colorado: technique and implications in a semiarid region (*with* **Holley, W. D.**), 21.10–553

Hanappe, F.
  Chimie des neiges antarctiques et taux de déposition de matière extraterrestre [Chemistry of Antarctic ice and accretion rate of extra-terrestrial matter] (*with others*), 21.8–442

Hanawalt, Ronald B.
  Soil properties affecting the sorption of atmospheric ammonia, 21.4–396

Handa, B. K.
  Chemical composition of rain water in some parts of northern India, 21.7–624
  Chemical composition of rain water over Calcutta, 21.7–625

Handman, Arthur L.
  Electrical convection currents in cumulus clouds, 21.7–717

Hanel, R.
  Interferometer experiment on Numbus-3: preliminary results (*with* **Conrath, B.**), 21.8–241

Hanks, R. J.
  Numeric method for estimating infiltration, redistribution, drainage, and evaporation of water from soil (*with* **Klute, A.** and **Bresler, E.**), 21.6–752
  Plant growth–evapotranspiration relations for several crops in the Central Great Plains (*with* **Gardner, H. R.** and **Florian, R. L.**), 21.9–278

Hanna, L. W.
  Relationships between yields of sugar cane and moisture as estimated from meteorological data at Kakira, Uganda, 21.10–431

Hanna, Steven R.
  Characteristics of winds and turbulence in the planetary boundary layer, 21.1–360
  Formation of longitudinal sand dunes by large helical eddies in the atmosphere, 21.4–232
  Spread of small smoke plumes (*with* **Hutchison, B. A.** and **Gifford, F. A., Jr.**), 21.5–252
  Thickness of the planetary boundary layer, 21.6–194

Hannell, F. G.
  Research in urban climate at McMaster University, 21.4–352

Hannemann, Martin D., *see* **Hovind, E. L.**, 21.1–241

Hansel, Christian
  Rechenexperiment zur Untersuchung der Einflüsse von Temperatur- und Vorticityadvektion auf verschiedene Zustandsänderungen [Mathematical experiment in research on the influence of temperature and vorticity advection on various changes], 21.4–175

Hansen, D. V., *see* **Zetler, B. D.**, 21.12–800

Hansen, Donald
  Limiting probabilities as applied to synoptic-scale analysis and prediction, 21.11–254

Hansen, Frank V.
  Dimensionless solution for the wind and temperature profiles in the surface

boundary layer (*with* **Serna, J.**), 21.5–484
See also **Armendariz, M.**, 21.1–481

Hansen, James E.
Absorption-line formation in a scattering planetary atmosphere, 21.4–428
Near-infrared light scattering by terrestrial clouds (*with* **Pollack, J. B.**), 21.7–565
Near-infrared reflectivity of Venus and ice clouds (*with* **Cheyney, H.**), 21.8–368
Theoretical spectral scattering of ice clouds in the near infrared (*with* **Cheyney, H.**), 21.6–362

Hansen, N. Klint, *see* **Gjessing, D. T.**, 21.4–47

Hansen, Richard T.
Brightness variations of the white light corona during the years 1964–67 (*with others*), 21.9–550
Differential rotation of the solar electron corona (*with* **Hansen, S. F.** and **Loomis, H. G.**), 21.9–551

Hansen, S. D., *see* **Pao, Y. H.**, 21.4–195

Hansen, Shirley F., *see* **Hansen, Richard T.**, 21.9–551

Hansen, Walter
Novye metody predvychisleniia prilivov i prilivootlivnykh techeniĭ [New methods for the prediction of tides and tidal currents], [and English transl.], 21.2–795

Hanson, K. J., *see* **Vonder Haar, T. H.**, 21.1–462

Hanson, W. B., *see* Sanatani, S., 21.7–213

Hantel, Michael
Numerical investigation of the linear primitive equations applied to the wind-driven circulation of the northwestern Indian Ocean between 16°N–16°S, 21.4–734

Haque, S. M. A.
Slow motion of a fluid under a horizontal temperature gradient, 21.7–234

Hara, Hisako
Measurement of bottom current on a shoulder of a sea mount, 21.12–765

Harada, H.
Relation between air pollution in Osaka and anticyclone, 21.5–253

Harang, L.
Electromagnetic emissions in the kHz band during aurora, 21.10–536
Low latitude v.l.f. emissions and polar substorms (*with* **Akasofu, S. I.**), 21.10–538
Radio noise from aurora, 21.10–537

Harang, Ove E.
Summary on spectroscopy of rocket releases, 21.6–63
See also **Gerard, Jean-Claude**, 21.10–528

Hardcastle, P. J., *see* **Hewett, D. G.**, 21.6–98

Harding, J.
Measuring and processing of rainfall data (*with* **Rider, N. E.**), 21.9–72

Hardy, Kenneth R.
Probing clear atmosphere with high power, high resolution radars (*with* **Katz, I.**), 21.1–105
Probing the atmosphere with high power, high resolution radars (*with* **Katz, I.**), 21.6–42
Radar investigations of convective patterns in the clear atmosphere (*with* **Ottersten, H.**), 21.1–542

Hare, F. Kenneth
Atmospheric circulation and Arctic meteorology, 21.8–224
New wings for climatology, 21.2–284

Hargreaves, J. K.
Observations of auroral phenomena at conjugate points, 21.10–539

Hariharan, S., *see* **Mani, Anna**, 21.11–492

Hariharan, T. A.
Improved polarimeter for atmospheric radiation studies, 21.8–234
Polarization of reflected solar radiation over land, sea and cloud surfaces, 21.10–488

Harker, J. A., *see* **Briggs, J.**, 21.6–607

Harkness, Richard L., Jr.
Plasma wave propagation in the neighborhood of a magnetic neutral point, 21.11–623

Harkrider, David G.
Excitation and dispersion of the atmosphere surface wave (*with* **Wells, F. J.**), 21.5–372

Harlan, R. L., *see* **Freeze, R. A.**, 21.6–748

Harley, W. S.
Mean monthly three hour tendencies, means, extremes and standard deviations of pressure and temperature for Canada (*with* **Cudbird, B. S. V.**), 21.11–55

Harlin, Ben W.
Fort Sherman, Panama Canal Zone climate calendar, 21.2–290
Gun Hill Meteorological Site, Panama Canal Zone climate calendar (with **Allen, J. T.**), 21.2–289

Harman, J. M., *see* **Hause, L. G.,** 21.10–566

Harman, James A.
  Cold air production due to thunderstorms, 21.1–413

Haroules, George G.
  Simultaneous investigation of attenuation and emission by the Earth's atmosphere at wavelengths from 4 centimeters to 8 millimeters (*with* **Brown, W. E., III**), 21.4–142
  See also **Thompson, W. I., III,** 21.1–336

Harper, Carol L., *see* **Brezonik, Patrick L.,** 21.10–763

Harri, J.
  Rocket borne scintillation spectrometer for observing cosmic X-rays (with **McGee, M.** and **Toor, A.**), 21.2–165

Harries, J. E., *see* **Burroughs, W. J.,** 21.2–237

Harrington, William
  Use of a portable weather unit in controlled burning weather forecasting, 21.6–95

Harris, A. J., *see* **Voege, F. A.,** 21.4–411

Harris, Barry E.
  Role of the synoptic scale on convection over Southeast Asia during the summer monsoon (*with others*), 21.5–533
  Structure of the troposphere over Southeast Asia during the summer monsoon month of July (*with* **Ho, F. P.**), 21.5–306

Harris, D. J.
  Atmospheric electric field measurements during the Harmattan dust haze in Northern Nigeria, 21.9–425

Harris, Dale R.
  Beat the big freeze, 21.2–46

Harris, F. S., Jr.
  Optical size measurements of atmospheric aerosols (*with others*), 21.12–108
  Particle characteristics from light scattering measurements, 21.4–372

Harris, I.
  The structure of the thermosphere and its variations (*with* **Priester, W.**), 21.7–157

Harris, K. K.
  Observations of the plasmapause from OGO-5 (*with* **Sharp, G. W.** and **Chappell, C. R.**), 21.6–248
  See also **Chappell, C. R.,** 21.6–246

Harris, Stuart A.
  Isostatic recovery near glacier-ice margins, 21.6–824

Harrison, A. E.
  Glacial activity preceding the 1956 Muldrow glacier surge in Alaska, 21.11–752

Harrison, A. W.
  Helium emission (1.083 μ) in sunlit aurora (*with* **Cairns, C. D.**), 21.11–532
  Some observations of twilight He (1.083) emission, 21.7–351

Harrison, D. N.
  British radiosonde, 21.5–143

Harrison, James K.
  Effect of the Moon's infrared emission on thermal calculations, 21.9–488

Harrison, M. D., *see* **Thomas, L.,** 21.6–241

Harrison, W.
  Time series from the beach environment, 21.11–786

Harriss, Robert C.
  Boron regulation in the oceans, 21.4–683

Harrold, T. W., *see* **Browning, K. A.,** 21.1–397

Harroy, J. P., *see* **Lebrun, J.,** 21.9–572

Hart, George E.
  Reducing water use by trees, 21.5–654

Hartke, H., *see* **Czepa, O.,** 21.4–753

Hartle, R. E., *see* **Bauer, S. J.,** 21.12–600

Hartman, L. M.
  Effects of hurricane storms on agriculture (*with* **Holland, D.** and **Giddings, M.**), 21.7–621

Hartman, M. A., *see* **Ree, W. O.,** 21.6–781

Hartmann, Gerd K.
  Inhomogeneities in the ionosphere measured by radio signals from the beacon satellite Exprorer-22, emphasizing satellite scintillations, 21.9–168
  Tropospheric diffraction phenomena of radio signals from the beacon satellite Explorer-22, 21.1–313
  See also **Dieminger, W.,** 21.4–62

Hartranft, F. R., *see* **Wallace, J. M.,** 21.3–610

Harvey, A. M.
  Channel capacity and the adjustment of streams to hydrologic regime, 21.11–722

Harvey, J. W.
  Magnetograph measurements with temperature-sensitive lines (*with* **Livingston, W.**), 21.11–648
  Short period oscillations and Doppler velocity gradients, 21.11–649
  See also **Livingston, W.,** 21.11–653; **Newkirk, G.,** 21.2–502

Harwit, M.
  Near infrared night sky background, 21.7–352

  - *See also* **Houck, J. R.,** 21.8–248; 21.10–278
- **Hasegawa, A.,** *see* **Lanzerotti, L. J.,** 21.4–153
- **Hasegawa, Sadao**
  - Characteristics of the short wave propagation from Tokyo to Syowa Station, Antarctica (*with* **Takeuchi, T.** and **Isobe, T.**), 21.2–71
- **Hashemi, Fereidoon**
  - Statistical analysis of the low temperatures of Tehran, using data from the Records Center of the Iranian Meteorological Dept., 21.10–312
  - Using climatic information and weather forecast for decisions in economizing irrigation water (*with* **Decker, W.**), 21.6–631
- **Hashim, A.**
  - Large amplitude wave trains in the cosmic ray intensity (*with* **Thambyahpillai, T.**), 21.10–297
  - *See also* **Quenby, J. J.,** 21.7–419
- **Hasler, A. Frederick,** *see* **Kornfield, Jack,** 21.7–577
- **Hasler, Arthur D.,** *see* **Parker, M.,** 21.4–599
- **Haslett, J. C.**
  - Rocket measurements of $0_2(^1\Delta\ g)$ (*with* **Megill, L. R.** and **Schiff, H. I.,** 21.7–158
- **Hass, W. A.,** *see* **Herbert, G. A.,** 21.4–389
- **Hasse, Lutz**
  - On the determination of vertical transports of momentum and heat at sea (*with* **Brocks, K.**), 21.3–792
  - *See also* **Brocks, Karl,** 21.7–481
- **Hasselmann, K.**
  - Sea surface, 21.12–4R
- **Hastay, Millard**
  - Statistical evaluations of a cloud-seeding program at the streamflow control level (*with* **Gladwell, J. S.**), 21.6–157
- **Hastenrath, Stefan L.**
  - On the energy content of the atmosphere, 21.6–268
  - On the role of meridional circulations in the kinetic energy budget of the Northern Hemisphere, 21.6–306
  - Study of the atmospheric circulation between equator and 60°N during the winter and summer seasons, 21.11–244
  - Study of the atmospheric energy budget between equator and 60°N during the winter and summer seasons, Pt. 1, 21.5–398; Pt. 2, 21.5–399
  - Zum Wärmehaushalt der Troposphäre über dem Amerikanischen Mittelmeer [The tropospheric thermal budget over the Central American seas], 21.7–273
  - Zur mittleren Meridionalzirkulation in äquarotialen Breiten [Mean meridion circulation in equatorial latitudes], 21.7–272
  - *See also* **Osman, Osman E.,** 21.7–589
- **Hastings, James Rodney**
  - Climatological data and statistics for Baja California (*with* **Humphrey, R. R.**), 21.6–640
  - Climatological data and statistics for Sonora and northern Sinoloa (*with* **Humphrey, R. R.**), 21.6–641
- **Hasunuma, Keiichi,** *see* **Uda, Michitaka,** 21.12–768
- **Hathorn, J. W.**
  - Wind tower influence study for NASA's 150-meter meteorological tower at Kennedy Space Center, Florida, 21.3–170
- **Hattersley-Smith, G.**
  - Canadian operation "Hazen-Tanquary," 1968, 21.5–74
  - Density stratified lakes in northern Ellesmere Island, 21.12–714
  - Recent observations on the surging Otto Glacier, Ellesmere Island, 21.11–753
- **Hatzopoulos, G. J.,** *see* **Carman, E. H.,** 21.8–245
- **Haude, Waldemar**
  - Erfordern die Hochstände des Toten Meeres die Annahme von Pluvial-Zeiten während des Pleistozäns? [Do the high water levels of the Dead Sea require the assumption of pluvials during the Pleistocene], 21.2–303
- **Haug, A.**
  - A two-ion model of electron-ion recombination in the D-region (*with* **Landmark, B.**), 21.11–189
  - An interpretation of asymmetric cross-correlation functions in D- and lower E-region drift measurements (*with* **Pettersen, H.**), 21.11–188
- **Hauge, Oivind**
  - The abundance of cadmium in the solar atmosphere, 21.10–664
- **Haupt, Harold F.**
  - 2-year evaluation of the snowmelt lysimeter, 21.10–414
  - *See also* **De Byle, N. V.,** 21.6–89; **Satterlund, Donald R.,** 21.11–395

Haupt, Ingrid
Wettersatellitenbeobachtungen und ihre Auswertung. Das Europäische Wetterbild 1967, Teil I–IV [Weather satellite observations and their evaluation. The European weather picture, 1967, Pt. 1–4] (*with others*), 21.2–18
Haurwitz, B.
Lunar barometric tide, its global distribution and annual variation (*with* **Cowley, Ann D.**), 21.11–332
Haurwitz, Marion W.
Distribution of stably trapped magnetospheric plasma as determined from Pi2 micropulsations and the auroral electrojet index, AE, 21.8–274
Hause, L. G.
UHF radio propagation data for low antenna heights (*with* **Kimmett, F. G.** and **Harman, J. M.**), 21.10–566
See also **Kimmett, F. G.**, 21.10–567
Hauser Research and Engineering Co., Boulder, Colo.
Effects of thermal cycling on biaxially stressed balloon films, 21.3–130
Impact toughness of balloon films, 21.3–131
Hauser, Victor L., *see* **Lotspeich, F. B.**, 21.2–611
Hauth, F. F.
Investigation of clouds above snow surfaces utilizing radiation measurements obtained from the Nimbus-II satellite (*with* **Weinman, J. A.**), 21.8–365
Havens, A. Vaughn
Economic impact of drought on water supply systems in the Passaic River basin, New Jersey, 21.8–415
Havlick, Spenser W.
Water-related research for the Great Lakes region (*with* **Wilson, J. T.**), 21.5–744
Havlik, Dieter
Höhenstufe maximaler Niederschlagssummen in den Westalpen [Altitude level of maximum precipitation totals in the West Alps], 21.5–607
Hawaii. Univ., Honolulu. Hawaii Inst. of Geophysics, *see* **Danielsen, E. F.**, 21.5–510; **Harris, B. E.**, 21.5–306, –533
Hawerman, Bertil
Protected areas for groundwater sources, 21.4–504
See also **Falkenmark, Malin**, 21.11–95R
Hawley, J. E., *see* **Culberson, Charles**, 21.10–801
Hawson, C. L., *see* **Pierson, D. H.**, 21.12–348
Hay, R. F. M.
Analysis of monthly mean pressure patterns near the British Isles, with possible applications to seasonal forecasting, 21.11–123
Hayakawa, Masashi
Dispersion of waves in the lower exosphere with multiple ionic species (*with* **Ohtsu, Jinsuke** and **Iwai, Arika**), 21.10–203
Hayakawa, S.
Atmospheric absorption and the diffuse component of celestial ultraviolet radiation (*with* **Yamashita, K.**), 21.3–57
Modulation of cosmic-ray electrons, 21.9–479
See also **Fujimoto, M.**, 21.11–563
Hayashi, K.
Solar flare effect on VLF chorus (*with* **Kokubun, S.** and **Oguti, T.**), 21.2–382
Hayashi, Shigeaki
Maritime meteorological summary of western North Pacific Ocean in winter (*with* **Miyashita, I.** and **Fujita, I.**), 21.5–10
Hayashi, Y., *see* **Yanai, M.**, 21.4–94
Hayduk, Robert J., *see* **Thomson, R. G.**, 21.3–670
Hayes, C. F., *see* **Semonin, R. G.**, 21.1–365
Hayes, Wallace D.
Note on compressible bores, 21.7–240
Haymes, R. C.
Low-energy gamma radiation in the atmosphere at midlatitudes (*with others*), 21.4–151
Hays, P. B.
Interferometric measurements of the 6300 Å Doppler temperature during a magnetic storm (*with* **Nagy, A. F.** and **Roble, R. G.**), 21.3–561
Hazan, R.
Détermination des débits maximum et des hydrogrammes de crues [Determination of maximum discharge and flood hydrograms] (*with* **Lazarevic, D.**), 21.10–698
Formation des crues pluviales et évaluation des maximums des débits de crue [Formation rainfall floods and evaluation of maximum flood runoff], 21.10–417
Hazzaa, I. B.
Determination of the effective porosity for partially penetrated aquifers (*with* **Girgis, R. K.** and **Refaei, S. M.**), 21.1–787
Heagler, Arthur M., *see* **Penn, J. B.**, 21.8–381

- **Healey, D. A.,** *see* **Minkley, B. G.,** 21.11–63R
- **Healy, John R.**
  - Inventory of research on desert regional types, 21.2–312
- **Heard, M. J.**
  - Electron microscopy of natural aerosols and the identification of particulate ammonium sulfate (*with* **Wiffen, R. D.**), 21.5–254
- **Heath, Donald F.**
  - Observations of the intensity and variability of the near ultraviolet solar flux from the Nimbus-III satellite, 21.5–446
- **Heath, R. A.**
  - Geostrophic currents derived from oceanic density measurements north and south of the subtropical convergence east of New Zealand, 21.2–726
- **Heckman, Harry H.**
  - Low-altitude trapped protons during solar minimum period, 1962–1966 (*with* **Nakano, George H.**), 21.11–293
- **Hedeman, E. Ruth,** *see* **Dodson, H. W.,** 21.1–700; 21.2–462, –480; 21.9–523; 21.10–293
- **Hedeșiu, Natalia,** *see* **Peligrad, D.,** 21.2–194
- **Heeran, M. P.,** *see* **Carman, E. H.,** 21.3–517
  - *See also* **Carman, E. H.,** 21.8–245
- **Heffter, Jerome L.**
  - ARL fallout prediction technique, 21.3–267
- **Hegblom, E. R.,** *see* **Ulwick, J. C.,** 21.11–525
- **Hegedűs, M.**
  - Some problems of determining the water equivalent of the snow cover (*with* **Szesztay, K.**), 21.8–443
- **Heiles, Carl**
  - Neutral hydrogen in dark dust clouds, 21.2–417
  - Temperatures and OH optical depths in dust clouds, 21.4–434
- **Heindl, L. A.**
  - Hydrology, 21.9–558
  - The U.S./International Hydrological Decade program: the half-way mark, 21.9–116R
- **Heinrich, Manfried,** *see* **Hinzpeter, H.,** 21.5–449
- **Heinrichsdorf, Fritz**
  - Die mittelfristige Vorhersage des Grundwasserstandes mit Hilfe der Regressionsanalyse [Medium-term forecast of groundwater levels with the aid of the regression analysis method], 21.11–711
- **Heinsheimer, T. F.,** *see* **Blamont, J. E.,** 21.7–451
- **Heitman, H., Jr.,** *see* **Morrison, S. R.,** 21.7–521
- **Heitmann, Marie Luise**
  - Ein Beitrag zur Turbulenz des Tiefenwassers im Stechlinsee [Contribution to calculation of deep-water turbulence in the Stechlinsee (Lake Stechlin)], 21.10–770
- **Helbig, Alfred**
  - Erste Ergebnisse von Schlagregenmessungen an Gebauden [First results of measurements of driving rain on buildings], 21.11–388
- **Held, Gerhard**
  - IV International Konferenz für Karpatenmeteorologia, 16–20 [Fourth International Conference on Meteorology of the Carpathian Mts., Cracow, Poland, Sept. 16–20, 1969], 21.8–2
  - Struktur der Wind- und Temperaturfelder im Bereich der Hohen Tatra [Structure of the wind and temperature fields in the High Tatra region], 21.8–530
- **Helder, E. D.,** *see* **Berman, A.,** 21.11–465
- **Heldman, D. R.**
  - Relationships between aerosol dispersion and air turbulence in a food packaging area, 21.11–160
- **Helfert, Norbert F.,** *see* **Schwarz, Francis K.,** 21.8–412
- **Helley, Edward J.**
  - December 1964, a 400-year flood in northern California (*with* **LaMarche, V. C., Jr.**), 21.2–550
- **Helley, W. D.,** *see* **Hanah, Joe J.,** 21.10–553
- **Helliwell, N. C.,** *see* **Singleton, F.,** 21.6–338
- **Helliwell, R. A.**
  - Whistlers and VLF emissions, 21.10–540
  - *See also* **Burtis, W. J.,** 21.2–379
- **Hellmann, Hubert**
  - Untersuchungen zur Kohlenwasserstofffracht des Rheins 1968/69 und Uberlegungen zu deren Herkunft: ein Beitrag zur Frage der Mineralolverschmutzung der Gewasser [Investigation into Rhine River hydrocarbon contents 1968/69 and reflections on their origin: a contribution to the question of water pollution by mineral oil) (*with* **Bruns, F. J.**), 21.12–695
- **Hellström, B.**
  - Potable water extracted from the air: report on laboratory experiments, 21.10–564

Hely, Allen G.
Hydrologic and climatologic data 1968, Salt Lake County, Utah (*with* **Mower, R. W.** and **Horr, C. A.**), 21.8–515
Lower Colorado River water supply: its magnitude and distribution, 21.8–772
Hem, J. D., *see* **Roberson, C. E.,** 21.3–741
Hembree, G. D., *see* **Miyakoda, K.,** 21.6–297
Hemenway, C. L.
Collection of meteoric dust after the Leonid meteor shower 1965 (*with* **Hallgren, D. S.**), 21.12–612
Henderson, Garry C.
Lunar exploration for water deposits by electrical methods, 21.10–601
Henderson, Patricia M.
Cloud conditions over the Beaufort Sea, 21.10–370
Henderson, Thomas J.
6000 thunderstorms and what they indicate, 21.1–414
Hendrick, Robert L.
Space variations of precipitation and implications for raingage network design (*with* **Comer, G. H.**), 21.12–100
Hendy, C. H., *see* **Devereux, I.,** 21.10–827
Henning, Dieter
Ein altes meteorologisches Experiment und eine erste Abschätzung des Wasserhaushalts des Mittelmeers [An old meteorological experiment and a first order approximation of the Mediterranean water balance], 21.8–343
Tropische Zyklonen Australiens [Tropical cyclones in Australia], 21.1–404
Untersuchungen zur regionalen Verteilung von Transporten atmosphärischer Feldgrössen über den Äquator, Teil I [Investigations of the regional distribution of transequatorial transport of atmospheric parameters, Pt. 1], 21.3–441; Pt. 2, 21.3–442
Zonalkomponente des Windes über Fernando Noronha [Zonal wind components over Fernando Noronha], 21.1–528
Henrotte-Bois, Maurice
Résultats de mesures hydrologiques faites à bord de l'"Origny" [Results of hydrological measurements made aboard the "Origny"], 21.2–675
Henry, Ronald J. W.
Absorption of extreme ultraviolet solar radiation by Jupiter's upper atmosphere (*with* **McElroy, M. B.**), 21.6–709
Mutual diffusion coefficient of hydrogen atoms and molecules, 21.5–704
Henry, T. J. G.
Phase velocity and structure calculations for unstable quasi-geostrophic waves in a simple baroclinic westerly current, 21.10–238
Hentschel, Gerhard
Bioklimatische Arbeits- und Bewertungsunterlagen für die klimaterapeutische Praxis [Bioclimatic working basis and evaluation for application in climatotherapy], 21.5–671
Heppner, James P.
Magnetospheric convection patterns inferred from high latitude activity, 21.6–249
See also **Wescott, Eugene M.,** 21.8–613
Heras, R.
Méthodes pratiques d'estimation des plus grandes crues [Practical methods of estimating the maximum floods], 21.9–597
See also **Spain. Centro de Estudios Hidrograficos,** 21.11–103R
Herbel, Carlton H.
Moisture and temperature effects on emergence and initial growth of two range grasses (*with* **Sosebee, R. E.**), 21.3–707
Herbert, G. A.
Preliminary study of atmospheric effects on the sonic boom (*with* **Hass, W. A.** and **Angell, J. K.**), 21.4–389
Results of vertical–velocity fluctuation measurements in the atmospheric boundary layer over a salt–hay marsh (*with* **Soller, R. R.**), 21.1–536
Herbert, J. O., Jr.
Study of 2 GHz electromagnetic wave propagation over optical paths in three geographical regions of the United States (*with others*), 21.4–77
Herbert, Robin
Solving multi-well river groundwater flow problems, 21.10–736
Herbert, S. I., *see* **Kelywa, P. S.,** 21.3–658
Herkelrath, W. N., *see* **Hoffman, G. J.,** 21.3–201
Herman, Benjamin M., *see* **Fernald, Frederick G.,** 21.8–590
Herman, J. E., *see* **Ott, R. H.,** 21.5–42
Herman, J. R.
Role of atomic oxygen in the ionospheric E- and F-region behavior (*with* **Chandra, S.**), 21.11–190
See also **Bauer, S. J.,** 21.12–600

Hernandez, G.
NI $(^4S^\circ_{3/2}—2D^\circ_{5/2,3/2})$ transitions in the upper atmosphere at night (*with* **Turtle, J. P.**), 21.1–467
Hernandez, John W., *see* **Abdel-Razaq, A. Y.**, 21.6–625
Herndon, Alan, *see* **Woodley, William**, 21.7–30
Herr, Kenneth C.
Infrared absorptions near three microns recorded over the polar cap of Mars (*with* **Pimentel, G. C.**), 21.10–614
Herrera, Ismael
Correspondence principle for the theory of leaky aquifers (*with* **Figueroa Vega, G. E.**), 21.4–558
Theory of multiple leaky aquifers, 21.12–689
Herron, T. J.
Correlation of atmospheric pressure waves with ionospheric Doppler signals (*with* **Montes, H.**), 21.6–226
See also **Tolstoy, I.**, 21.6–78, –472
Herzberg, L.
Topside observation of electron density variations (G-condition) at times of low magnetic activity (*with* **Nelms, G. L.** and **Dyson, P. L.**), 21.7–186
Herzog, Joh
Kältesummen von München [Coldness totals for Munich], 21.3–554
Hesek, Ferdinand
Statistical model of a smoke plume, 21.5–384
Hess, B.
Température propre de l'aérosol en atmosphère agitée (*with* **Frank, H.** and **Köck, I.**), 21.5–579
Hess, G. D.
Comparison between wind waves at sea and the laboratory (*with* **Hidy, G. M.** and **Plate, E. J.**), 21.2–781
Hess, Mieczysław
Pietra klimatyczne w Alpach Wschodnich, Karpatach Zachodnich i w Sudetach [Vertical climatic zones in the Eastern Alps, the Western Carpathians and the Sudetes], 21.7–684
Hess, Paul
Katalog der Grosswetterlagen Europas [Catalog of European large-scale weather patterns] (*with* **Brezowsky, H.**), 21.4–96
Hess, Seymour L.
Vorticity, Rossby number and geostrophy in the atmosphere of Jupiter, 21.10–628
Hess, Wilmot N.
Generation of an artificial aurora, 21.2–373
Hesse, Victor L., *see* **Allison, Stephen V.**, 21.7–500
Hessler, Victor P.
Polar ionospheric research, 21.7–187
Hesstvedt, Eigil
Airglow and vertical eddy transport, 21.7–353
Effect of vertical eddy transport on the composition of the mesosphere and lower thermosphere, 21.12–278
Noctilucent cloud observations and deductions: water vapor in the stratosphere and mesosphere, 21.8–581
Nucleation and growth of noctilucent cloud particles, 21.8–582
Physics of nacreous and noctilucent clouds, 21.11–496
Vertical distribution of CO near the troposphere, 21.12–216
Heurtier, R.
Essai de climatologie touristique synoptique de l'Europe occidentale et Méditerranéenne pendant la saison d'été, première partie [A synoptic touristic climatology of western Europe and the Mediterranean during the summer season, Pt. 1], 21.11–453
Heuseler, Holger
Oberflächenverhältnisse des Planeten Mars [Surface conditions of the planet Mars], 21.2–444
Heuzey, J., *see* **Chesneau, J.**, 21.9–370
Hewens, E. J., *see* **Hagg, E. L.**, 21.10–167
Hewett, D. G.
Automatic recording climatological station (*with* **Hardcastle, P. J.**), 21.6–98
Hewish, A.
Radio investigation of the solar plasma (*with* **Symonds, M. D.**), 21.2–141
Hewitt, Kenneth
Glacier surges in the Karakoram Himalaya, Central Asia, 21.11–746
Hewson, E. Wendell
Moisture pollution of the atmosphere by cooling towers and cooling ponds, 21.8–345
Hexter, Paul L., *see* **Giraytys, J.**, 21.4–20
Heybey, W. H.
Wind vector calculation using crossed-beam data and detector arrangement for measuring horizontal winds, 21.5–46
Heyne, H.
Diagramme zur Bestimmung der extraterrestrischen Hangbestrahlung [Dia-

gram for calculation of extra-terrestrial slope irradiation], 21.11–282

Hibbert, A. R.
  Water yield changes after converting a forested catchment to grass, 21.8–455

Hickey, J. R., *see* **Karoli, Alton R.,** 21.8–235

Hickey, John J.
  Variations in low-water streambed elevations at selected stream-gaging stations in northwestern California, 21.7–777

Hickin, E. M.
  18 GHz propagation, 21.11–215

Hickok, R. B.
  Some limitations on estimates of infiltration as a basis for predicting watershed runoff (*with* **Osborn, H. B.**), 21.9–602

Hicks, Bruce B.
  Simple instrument for the measurement of Reynolds stress by eddy correlation, 21.5–122
  Sulfur-35 and beryllium-7 in ground level air at Aspendale, 21.5–255
  See also **Dyer, A. J.,** 21.1–292

Hicks, J. J.
  Radar observations of a gravitational wave in clear air near the tropopause associated with CAT, 21.3–593

Hicks, R. B., *see* **Briggs, R. M.,** 21.3–534; 21.7–398

Hidaka, Koji
  Iaponskie issledovaniia glubinnykh techeniĭ [Deep-sea current research in Japan] [and English transl.], 21.4–717

Hide, R.
  Dynamics of the atmospheres of the major planets with an appendix on the rigid bounding surface of an electrically-conducting fluid in the presence of a magnetic field, 21.4–482

Hidore, John J.
  Geography of the atmosphere, 21.2–2

Hidy, G. M., *see* **Friedlander, S. K.,** 21.12–238; **Hess, G. D.,** 21.2–781

Hierlihy, R. D.
  Cloud amount probabilities from the CAO isanabat prognoses, 21.12–146

Higano, Ryoji
  Oceanographic data of the 10th Japanese Antarctic Research Expedition 1968–1969 (*with* **Saruwatari, R.**), 21.10–110R
  See also **Watanabe, R.,** 21.6–829

Higashimura, M., *see* **Sinno, K.,** 21.7–202

Higgins, T. P., *see* **Goudas, C. L.,** 21.11–568

Highsmith, Richard M., Jr. (ed.)
  Atlas of the Pacific Northwest: resources and development, 21.11–456

Hight, Warren D.
  Great Lakes navigation season, 1968 (*with* **Schwerdt, R. W.**), 21.1–128; 21.9–244R

Higuchi, Haruo
  On the hydraulic model experiment on the diffusion due to the tidal current, Pt. 2 (*with* **Sugimoto, T.**), 21.12–760; Pt. 3, 21.12–761
  See also **Nakajima, Chotaro,** 21.11–60

Higuchi, Keiji
  Observations of pre-activated ice nuclei in the atmosphere at subzero temperature (*with* **Wushiki, H.**), 21.12–514

Hill, E. L.
  Spectroscopic and thermal temperatures in the return stroke of lightning (*with* **Robb, J. D.**), 21.8–626

Hill, H. W.
  Compatible satellite meteorological data collection system (*with* **Whistler, C. F.**), 21.8–45
  Synoptic study of a large-scale meridional trough in the Tasman Sea–New Zealand area, 21.5–426
  See also **Ramster, J. W.,** 21.4–719

Hill, John B.
  Temperature variability and synoptic cold fronts in the winter climate of Mexico, 21.2–176

Hill, R. D.
  Electromagnetic radiation from irregular lightning paths, 21.9–455
  Excitation of extremely low frequency sferics, 21.10–541

Hill, R. H.
  DC millivolt integrator, 21.5–104

Hill, William R., *see* **Kao, S. K.,** 21.6–486

Hilleary, D. T., *see* **Wark, D. Q.,** 21.3–547

Hills, R. C.
  Illustrations of soil moisture variability in selected areas and plots of different sizes (*with* **Reynolds, S. G.**), 21.10–432

Hilsenrath, Ernest
  Ozone measurement in the mesosphere and stratosphere by means of a rocket sonde (*with* **Seiden, L.** and **Goodman, P.**), 21.6–211

Hilsenrod, Arthur
  Test of a patented technique for dissipating fog and low clouds, 21.12–183

- **Himley, Richard O.**
  - VLF radiation from subsequent return strokes in multiple stroke lightning, 21.2–383
- **Hinds, W. T.**, *see* **Elderkin, C. E.**, 21.12–361
- **Hines, C. O.**
  - Second order perturbations, 21.6–278
  - *See also* **Chimonas, G.**, 21.6–669
- **Hines, Marion S.**, *see* **Lamonds, A. G.**, 21.4–544; **Plebuch, Raymond O.**, 21.11–717
- **Hingston, Janice**, *see* **King-Hele, D. G.**, 21.1–272
- **Hinkelmann, Karl**
  - Avtomaticheskaia obrabotka sinopticheskikh i aerologicheskikh svodok [Automatic processing of synoptic and aerological summaries], 21.8–16
  - Polnye uravneniia [Primitive equations], 21.8–92
- **Hinrich, Helmut**
  - Gewässerkundlichen Zeichen für Messstelle Messergebnisse und Anlagen gemäss DIN 19710 und ihre Bedeutung fur die karten der Gewässer kundlichen Jahrbücher [Hydrological symbols for measuring stations, results and structures according to DIN 19710 and their importance for the maps of hydrological yearbooks], 21.12–657
- **Hinteregger, H. E.**
  - Effects of solar XUV radiation on the Earth's atmosphere, 21.6–370
  - Thermospheric densities and temperatures from EUV absorption measurements by OSO-III (*with* **Hall, L. A.**), 21.7–159
- **Hinzpeter, Hans**
  - Die langwellige Strahlungsdivergenz über Wasser und über dem festen Boden nach Messung und Rechnung [The longwave radiation divergence over water and over firm surfaces after measurement and calculation] (*with* **Heinrich, M.**), 21.5–449
  - Versuche zum Nachweis laminarer Grenzschichten über dem Meer [Experimentation to detect laminar boundary layers over the sea] (*with* **Lobemeyer, P.**), 21.6–195
- **Hirao, Kunio**
  - High frequency probes, 21.6–120
  - Rocket observation of the ionosphere in twilight conditions (*with others*), 21.8–180
- **Hirasawa, Takeo**, *see* **Kaminuma, Katsutada**, 21.9–445
- **Hirling, György**
  - A meteorológiai rakéták mérőmódszerei [Measurement methods used on meteorological rockets], 21.3–143
  - A tropopauza magasságának változásai [Variations of the height of the tropopause], 21.6–196
- **Hirman, J. W.**, *see* **Whipple, E. C., Jr.**, 21.1–161
- **Hirose, H.**
  - Spectral studies of meteors at the Tokyo Astronomical Observatory (*with others*), 21.11–620
- **Hirose, Mototaka**
  - Alternate method for eigenvector computations (*with* **Kutzbach, J. E.**), 21.12–24
- **Hirota, Isamu**
  - Periodic variation of the winter stratospheric circulation and intermittent vertical propagation of planetary waves (*with* **Sato, Y.**), 21.6–293; 21.11–84R
  - Some dynamical aspects of ultralong waves in a baroclinic zonal current, 21.7–274
  - Vertical structure of transient planetary waves in the stratosphere, 21.12–367
- **Hirshberg, J.**
  - Interplanetary magnetic field during the rising part of the solar cycle, 21.5–725
  - Observation of a solar flare induced interplanetary shock and helium-enriched driver gas (*with others*), 21.6–725
- **Hirt, M. S.**
  - Experiment in pollution transport during Peel County Cleaner Air Week Campaign (*with* **Dinning, S. E.**), 21.9–125
  - *See also* **Findlay, B. F.**, 21.6–665; **Munn, R. E.**, 21.7–149
- **Hisard, Philippe**
  - Comparison of the hydrographic structure of equatorial waters north of New Guinea and at 170°E (*with* **Magnier, Y.** and **Wauthy, B.**), 21.2–755
- **Hisdal, Vidar**
  - Weather in Svalbard in 1967, 21.1–133
  - Weather in Svalbard in 1968, 21.12–49
- **Hitchon, Brian**
  - Regional variations of river water composition resulting from halite solution (*with* **Levinson, A. A.** and **Reeder, S. W.**), 21.10–745

Hla Pe
Radioactive fallout in air during 1966–1967 (*with* **Chit Khaing**), 21.12–344

Hlachová, Pavla
Simple model of spiral cloud bands in large-scale atmospheric vortices, 21.8–366

Hladný, Josef
Předpovědi odtoku v bezsrážkových obdobích [Forecasting of runoff in periods without rain] (*with* **Buchtele, J.**), 21.4–523

Hlavac, Vaclav
Symmetrieachsen und Spiegelungen in der Prager Temperaturreihe [Symmetry axes and mirror images in the Prague temperature series], 21.6–438

Hlavek, R., *see* **Dubreuil, P.**, 21.7–808

Ho, Francis P., *see* **Danielsen, E. F.**, 21.5–510; **Harris, B. E.**, 21.5–306

Hobbs, Peter V.
Cloud condensation nuclei from industrial sources and their apparent influence on precipitation in Washington State (*with* **Radke, L. F.** and **Shumway, S. E.**), 21.6–569
Ice nuclei from a natural forest fire, 21.7–552
Ice nucleus measurements at three sites in Western Washington (*with* **Locatelli, J. D.**), 21.6–570
Planar growth of ice from the pure melt (*with* **Ketcham, W. M.**), 21.6–807
Propagation of the ice phase in the atmosphere, 21.4–264
Results of aircraft measurements in winter storms, 1968–1969, over the Cascade Mountains (*with others*), 21.9–202
See also **Ketcham, W. M.**, 21.12–541; **Scott, W. D.**, 21.1–756; 21.8–646; **Wilson, Dean A.**, 21.7–284

Hodara, Henri
Effects of a turbulent atmosphere on the phase and frequency of optical waves, 21.7–467

Hodge, Paul W.
Meteor physics and the density of particles at satellite and balloon altitudes (*with* **Brownlee, Donald E.**), 21.7–743
Semiempirical estimate of the micrometeorite flux at the Earth's surface and its implications (*with* **Wright, F. W.**), 21.9–519

Hodge, William T.
Weather log of the Kon-Tiki, 21.2–17

Hodgman, J. A.
National Data Buoy Development Project: a status report, 21.7–37

Hodson, Warren G., *see* **McGreevy, L. J.**, 21.2–556

Hoebbel, W.
Schwankungen des totalen Ozongehaltes der Atmosphäre im Zusammenhang mit stratosphärischen Erwärmungen [Oscillations of the total ozone content of the atmosphere in relationship to stratospheric warmings], 21.12–456

Hoeber, Heinrich
Latent and sensible heat flux in the atmospheric surface layer of the equatorial Atlantic, 21.7–484

Höchli, M.
Asthma and Hoehenklima [Asthma and Alpine climate], 21.8–544

Hoecker, W. H.
Effect of a sudden change in terrain height on the three-dimensional low-level air flow, as estimated from tetroon flights (with **Angell, J. K.**), 21.7–514

Höflich, Otto, *see* **Rudloff, Willy**, 21.9–71R

Hoeg, S., *see* **Czepa, O.**, 21.4–753

Högström, Ulf
Studies on the water balance of a small natural catchment area in southern Sweden (*with* **Larsson, I.**), 21.5–559

Höhn, R.
Aufgaben der Maritimen Meteorologie im Rahmen der Welt-Wetter-Wacht [Tasks of maritime meteorology within the framework of the World Weather Watch], 21.1–69

Höhne, W., *see* **Baumgart, H.**, 21.3–209

Hoehne, Walter E.
Final Report (on) Comparison of temperature-compensated and uncompensated pyranometers, 21.9–54
Final Report (on) Test and evaluation of the Fischer and Porter precipitation gage, 21.8–68
See also **Atkins, Elbert W.**, 21.8–69

Höller, E.
Messreihen aus dem Auftriebwassergebiet vor der Küste Nordwestafrikas [Measurement series from the upwelling region off the coast of Northwest Africa], 21.4–713
Über Temperaturmessungen an Bord [Shipboard temperature measurements], 21.6–28
Zu einer Messreihe im Container [Measurement series in a container], 21.8–528

Höschele, Karl
Zeitliche und räumliche Korrelationen bei Immissions-messungen [Temporal and spatial correlations during emission measurements], 21.5–257
Hoffer, T. E.
Observations of diffusional ice crystal growth in clouds (*with* **Warburton, J. A.**), 21.5–582
Some aspects of nucleation on lead iodide, 21.5–574
See also **Eaton, Larry R.**, 21.11–367
Hoffman, G. J.
Simultaneous cycling of Peltier thermocouple psychrometers for rapid water potential measurements (*with* **Herkelrath, W. N.** and **Austin, R. S.**), 21.3–201
Hoffman, J. H.
Ion mass spectrometer on Explorer-XXXI satellite, 21.10–61
Hoffmann, Klaus
Agrarmeteorologische Untersuchungen zur Standortforschung im Obstbau auf der Grundlage phänologischer Beobachtungen [Agrometeorological investigations on location research in fruit cultivation on the basis of phenological observations], 21.4–342
Hofmann, Walter
Basic data for optimum development of the water resources of the upper Gangetic Plain, India (*with* **Jones, P. H.**), 21.9–559
Hofmeyr, W. L.
Temperature lapse rates in the tropical and temperate zones of the Southern Hemisphere along 10°E, 21.5–485
Hofstee, J.
Ion-acoustic waves in the auroral plasma (*with* **Forsyth, P. A.**), 21.9–451
Hogan, Austin W.
Recent innovations in ice crystal replication and photography (*with* **Cheng, R.**), 21.12–540
Hogan, Joseph S.
Thermal structure of the Jovian atmosphere (*with* **Rasool, S. I.** and **Encrenaz, T.**), 21.6–710
See also **Stewart, R. W.**, 21.6–702
Hogben, N.
Measured wave heights and wind speeds at Weather Station "India" in the North Atlantic, 21.7–502
Hogg, D. C.
Progress in radio and non-ionized media (*with others*), 21.8–700
Hogg, W. H.
Basic frost irrigation and degree-day data for planning purposes, 21.8–680
Meteorological factors affecting the epidemiology of wheat rusts (*with others*), 21.8–545
Water in agriculture, 21.5–11
Hohenpeissenberg, Bavaria. Met. Obs.
Ergebnisse des Regenschreiber-Sondernetzes im Jahre 1968 [Results of special rain gage network in 1968], 21.7–586
Ergebnisse der aerologischen Ozonsondierungen und der Gesamtozonmessungen im Jahre 1967 [Results of aerological ozone soundings and the total ozone measurements in 1967], 21.4–41
Hoidale, Glenn B.
Infrared absorption spectra of atmospheric dust over an interior desert basin (*with* **Blanco, A. J.**), 21.4–413
Infrared spectroscopic view of the nature of giant and large particle atmospheric dust (*with* **Blanco, A. J.**), 21.1–296
Temporal variations in the nature of atmospheric dust above an interior desert basin (*with* **Blanco, A. J.**), 21.12–240
Variations in the absorption spectra of atmospheric dust (*with others*), 21.5–256
Hoidale, Marjorie E., *see* **Seagraves, Mary Ann B.**, 21.11–75
Hoinkes, Herfried C.
Surges of the Vernagtferner in the Otztal Alps since 1599, 21.10–785
Holdsworth, G.
Flexure of a floating ice tongue, 21.5–780
Holdsworth, N.
Weather satellites, 21.9–48
Holl, Manfred M., *see* **Tilden, C. E.**, 21.5–27
Holland, David, *see* **Hartman, L. M.**, 21.7–621
Holland, Douglas H., *see* **Billings, J. J.**, 21.6–555
Holland, G. L.
Some theoretical aspects on the study of storm surges, 21.2–777
Holland, H. D., *see* **Cawley, J. L.**, 21.3–332; **Kinsman, D. J. J.**, 21.3–785
Holland, Joshua, *see* **Kuettner, J. P.**, 21.3–20
Holle, Ronald L.
Effect on rainfall of cloud condensation nuclei from vegetation fires over south Florida during spring droughts, 21.12–201

Hollenbaugh, George W.
Automatic decoding of hourly weather reports (*with* **Glahn, H. R.** and **Lowry, D. A.**), 21.3–106
See also **Glahn, H. R.**, 21.5–152, –160, –185

Holliday, Charles
On the maximum sustained winds occurring in Atlantic hurricanes, 21.3–461

Holloway, J. Leith, Jr., *see* **Manabe, Syukuro**, 21.11–251

Holloway, J. T.
Watershed management in New Zealand, 21.9–614

Hollweg, Joseph V.
Stochastic heating of protons by fast hydromagnetic wave, 21.2–142

Holmes, J. W.
Forest hydrology in a karstic region of southern Australia (*with* **Colville, J. S.**), 21.10–353
Grassland hydrology in a karstic region of southern Australia (*with* **Colville, J. S.**), 21.10–354
On the absolute fall of sea-level during the quaternary and [Comment by **R. W. Fairbridge** and Reply by **Holmes**], 21.9–681

Holmes, R. M.
Study of the climate of the Cypress Hills, 21.4–349

Holmstrom, Fritz M. G.
Observations made at a high-altitude high-latitude manned facility, 21.8–546

Holopainen, E. O.
Determination of the intensity of the atmospheric energy cycle from the mean vertical distribution of diabatic heating, 21.6–270
On the maintenance of the atmosphere's kinetic energy over the Northern Hemisphere in winter, 21.10–216

Holt, Maurice (ed.)
Basic developments in fluid dynamics, Vol. 2, 21.1–6

Holt, Olav
[Discussion of] **Walter A. Flood:** Revised theory for partial reflection D-region measurements and [Reply by] **Flood**, 21.9–169

Holt, Stephen S.
Microwave and hard X-ray bursts from solar flares (*with* **Ramaty, R.**), 21.10–656
See also **Ramaty, Reuven**, 21.12–598

Holtan, H. N.
Hydrologic research for watershed engineering, 21.10–741
Influence of soils, vegetation and geomorphology on elements of the flood hydrograph (*with* **Creitz, N. R.**), 21.10–699
See also **Glymph, L. M.**, 21.10–680

Holtet, J.
Simultaneous ground and satellite measurements of the enhanced electromagnetic band emission between 500 and 1000 Hz (*with* **Egeland, A.**), 21.10–535

Holtom, H. T.
World's first large nuclear desalting plant: a description of the dual purpose plant to be located on a man-made island off the coast of Southern California, 21.8–834

Holton, James R.
Note on the scale analysis of tropical motions, 21.1–389

Holub, Robert J.
Wind interference and the placement of anemometers and vanes on open faced towers, 21.12–83

Holzer, Robert E., *see* **Olson, J. V.**, 21.5–737; **Russell, Christopher T.**, 21.9–459; **Smith, E. J.**, 21.2–386

Holzer, Thomas E.
Accidentally resonant charge exchange and ion momentum transfer (*with* **Banks, P. M.**), 21.3–693

Hooke, William H.
E-region ionospheric irregularities produced by internal atmospheric gravity waves, 21.2–72
Electron, ion and neutral-gas temperatures in temperate latitude sporadic-E layers, 21.2–73
On possible methods of determining the origin of E-region wind shear, 21.7–188
The response of the F-region ionosphere to internal atmospheric gravity waves, 21.7–189

Hooper, A. W.
Correlation of the critical frequency foF2 between a pair of mid-latitude magnetically conjugate points, 21.7–190

Hoopes, John A.
Studies of thermal pollution and lake circulation patterns, 21.4–607

Hope, John R.
Probability of tropical cyclone-induced winds at Cape Kennedy (*with* **Neumann, C. J.**), 21.7–292

Hopfield, H. S.
Two-quartic refractivity profile for the troposphere, for correcting satellite data, 21.12–71
Hopkins, Edward J.
Summary and correlation of skin-friction and heat-transfer data for a hypersonic turbulent boundary layer on simple shapes (*with others*), 21.7–732
Hopkins, George W., II, *see* **Strong, John,** 21.11–85
Hoppel, W. A.
Application of three-body recombination and attachment coefficients to tropospheric ions, 21.6–608
See also **Gathman, Stuart G.,** 21.7–713
Hopwood, Jennifer M.
Note on the quasi-biennial oscillation at Darwin, 21.6–518
Horai, Ki-Iti
Effect of past climatic changes on the thermal field of the Earth, 21.4–326
Horbert, M., *see* **Israel, H.,** 21.12–324
Horita, Robert E.
Some remarks on the origin of lower hybrid resonance noise in the ionosphere (*with* **Watanabe, T.**), 21.6–227
Horiuchi, G.
Lower thermosphere ions in the nighttime auroral zone, 21.5–314
Horiuchi, S., *see* **Arai, T.,** 21.11–740
Horiuchi, Toshihiko
Structure of high winds due to typhoons 6420 and 6523 observed at Tarumi Meteorological Tower, 21.10–79R
Winds over the Kurushima Straits, 21.10–80R
Horn, J. D.
Structural-induced interference on wind sensor measurements, 21.1–179
Horn, Lyle H., *see* **Bullock, B. R.,** 21.1–535; **Smith, P. J.,** 21.5–406
Hornaday, J., *see* **Barron, N. A.,** 21.10–405
Hornberger, George M.
Numeric studies of a composite soil moisture groundwater system (*with others*), 21.12–556
Numerical solution of the Boussinesq equation for aquifer–stream interaction (*with others*), 21.12–684
Horne, R. A.
Marine chemistry, 21.6–839
State of condensed water in the atmosphere (*with* **Eden, H. F.**), 21.1–559
Horney, Günther
Die mittlere Windverteilung in Geisenheim für die Periode 1931–1965 [Mean wind distribution in Geisenheim, 1931–1965], 21.6–492
Wettererscheinungen in ausströmender Kaltlugt [Weather phenomena in outflowing cold air], 21.3–619
Horowitz, A.
Palynological tracing of saline water sources in Lake Kinneret region (Israel), 21.12–685
Horowitz, J. L.
Easily constructed shadow-band for separating direct and diffuse solar radiation, 21.9–55
Horowitz, Richard, *see* **Newton, G. P**
21.5–216
Horr, C. A., *see* **Hely, A. G.,** 21.8–515
Horst, Werner
Experimente zur Untersuchung von Spiralstrukturen in Wirbeln [Experimental study of the spiral structures in vortices], 21.5–413
Experimentelle Untersuchungen der Wirbelstruktur in einer instabilen Ekman-Grenzschicht [Experiments on the vortex structure of an unstable Ekman boundary layer], 21.11–225
Horton, B. H., *see* **Lockey, G. W. A.,** 21.4–54
Horvath, Eva V.
References to glacier surges in North America (*with* **Field, W. O.**), 21.10–779
Horvath, Helmuth
Relationship between atmospheric light scattering coefficient and visibility (*with* **Noll, K. E.**), 21.10–476
Horváthová, Blažena
Klasifikácia slovenských riek podľa teploty vody [Classification of rivers of Slovakia according to water temperature], 21.5–495
Hoshiai, Takao
Seasonal variation of chlorophyll-a and hydrological conditions under sea ice at Syowa Station, Antarctica, 21.12–775
Hoshina, Masao, *see* **Tsuchiya, K.,** 21.2–107
Hosinsky, G., *see* **Öhman, Y.,** 21.2–489
Hosking, Kenneth J.
Summers at Ryde, Isle of Wight, 1918–1968, 21.9–375
Hosman, R. L., *see* **Boswell, E. H.,** 21.5–754
Hosokawa, Kôya
Distribution of heavy rainfall frequency

and its seasonal transition in Tohoku District, 21.9–317

Houck, J. R.
Far-infrared nightsky emission above 120 kilometers (*with* **Harwit, M.**), 21.10–278
Far-infrared observations of the night sky (*with* **Harwit, M.**), 21.8–248

Hough, G. R.
Froude number effects on two-dimensional hydrofoils (*with* **Moran, J. P.**), 21.4–407

Houghton, David D.
On global initialization of the primitive equations, Pt. 1 (*with* **Washington, W.**), 21.3–234
See also **Kasahara, A.**, 21.6–528

Houghton, J. T.
Absorption and emission by carbon-dioxide in the mesosphere, 21.1–457

Hoult, David P.
Theory of plume rise compared with field observations (*with* **Fay, J. A.** and **Forney, L. J.**), 21.3–598
See also **Fay, J. A.**, 21.3–597

Houminer, Zwi
Scintillations of radio signals from a synchronous satellite, 21.12–72

Hounam, C. E.
Revised regression equations for estimation of solar radiation over Australia, 21.6–349

House, Frederick B.
Inference of stratospheric temperature and moisture profiles from observations of the infrared horizon (*with* **Ohring, G.**), 21.4–170
On the interpretation of long-wave radiation data from Explorer-VII satellite, 21.8–46

House, Lewis, L., *see* **Avery, Lorne W.**, 21.12–630

Houston, R. E., Jr., *see* **Szachta, F. D.**, 21.2–26

Houtgast, J.
Eeuwfeest der protuberansen- en chromosfeer-spektroskopie [Centenary of chromospheric and prominence spectroscopy], 21.2–509
Occurrence and possible meaning of the "Nimbus," 21.11–630
See also **Burger, M.**, 21.6–730

Hovermale, J. B., *see* **Lavoie, R. L.**, 21.11–480
See also **Nitta, T.**, 21.3–239

Hovey, R. L.
Pilot weather briefing using time-shared computers (*with others*), 21.12–175

Hovind, Einar L.
Continued research on developing quantitative precipitation forecast methods in western areas (*with* **Elliott, R. D.** and **Hannemann, M. D.**), 21.1–241

Howard, Robert
Solar research at the Mount Wilson and Palomar Observatories, 21.3–730
See also **Smith, S. F.**, 21.2–466; **Wilcox, John M.**, 21.11–657

Howe, Everett D.
Solar distillation for augmenting the water supply on low islands, 21.8–835
See also **Tleimat, B. W.**, 21.2–113

Howe, Robert H. L.
Comprehensive and economical method for the discovery and evaluation of water resources, 21.9–560

Howell, H. B., *see* **Dinger, J. E.**, 21.11–371

Howell, John R.
Thermal radiation heat transfer, Vol. 2, Radiation exchange between surfaces and in enclosures (*with* **Siegel, R.**), 21.1–7

Howell, Wallace E.
Atmospheric ice-forming nuclei, Pt. 1, 21.1–204
Atmospheric ice-forming nuclei, Pt. 2, 21.9–75
[Discussion of]: **Peter H. Hildebrand:** an examination of a cumulus cloud width–height measure under the effects of seeding [and Reply by] **Hildebrand,** 21.3–309

Howells, Gwyneth Parry
Water quality in industrial area: profile of a river (*with* **Kneipe, T. J.** and **Eisenbud, M.**), 21.10–756

Howmiller, Richard P.
Horizontal water sampler for investigation of stratified waters (*with* **Sloey, W. E.**), 21.2–688

Hoy, R. D.
The effect of a total solar eclipse on the phase of long path v.l.f. transmissions, 21.10–542

Hrasko, Juraj
Geografia zasolených a alkalických pôd v Československu [Geography of the saline and alkaline soils in Czechoslovakia], 21.3–705

Hruska, A.
Long time-scale magnetodynamic noise in the geomagnetic tail (*with* **Hruskova, J.**), 21.5–731
Hruskova, J., *see* **Hruska, A.**, 21.5–731
Hsieh, C. C., *see* **Duff, Harvey W.**, 21.7–584
Hsieh, K. C.
Study of solar modulation of low-energy cosmic rays using differential spectra of protons, ^{3}He, and ^{4}He at E 100 MeV per nucleon during the quiet time in 1965 and 1967, 21.10–591
Hsin, Kieu Thi
Prostranstvenno-vremennye statisticheskie kharakteristiki i metodika optimal'noĭ interpoliatsii skorosti maksimal'nogo vetra [Space–time statistical characteristics and method of optimum interpolation of maximum wind velocity] (*with* **Shnaĭdman, V. A.**), 21.4–238
Hsu, Shih-Ang
Land- and sea-breeze fronts near 50 cm on the Gulf Coast, 21.7–491
Hsueh, Y.
Note on the boundary layer wind structure above sloping terrain, 21.7–515
Huang, Norden E.
Mass transport induced by wave motion, 21.11–764
Huber, A. Leon, *see* **Bagley, Jay M.**, 21.9–590
Hubert, Lester F.
[Discussion of] **W. J. Denney**: The Eastern Pacific hurricane season of 1968 [and Reply by] **Denney**, 21.4–108
Double intertropical convergence zone: Fact or fiction? (*with* **Krueger, A. F.** and **Winston, J. S.**), 21.1–381
Estimating hurricane wind speeds from satellite pictures (*with* **Timchalk, A.**), 21.1–408
Estimating maximum wind speed of tropical storms from high resolution infrared data (*with* **Timchalk, A.** and **Fritz, S.**), 21.3–462
Hudson, P. D.
Nonuniformity of solar protons over the polar caps on March 24, 1966 (*with* **Anderson, H. R.**), 21.2–143
Predissociation in the Schumann–Runge band system of O_2 (*with* **Carter, V. L.** and **Breig, E. L.**), 21.3–319
Hudspeth, E. B., Jr., *see* **Wanjura, D. F.**, 21.6–434
Huebner, George L.
Microwave parameters of sea water, 21.2–762
Huertas, Marie Louise
Study of the evolution in atmospheric air of neutral or ionized ultrafine particles. 21.12–585
Huff, F. A.
Evaluation of precipitation modification experiments from precipitation rate measurements (*with* **Shipp, W. L.** and **Schickedanz, P. T.**), 21.5–205
Precipitation detection by fixed sampling densities, 21.5–134
Sampling errors in measurement of mean precipitation, 21.6–91
Spatial correlations of storm, monthly and seasonal precipitation (*with* **Shipp, W. L.**), 21.5–135
Huffenus, J. P., *see* **Geneste, L.**, 21.6–284
Huffman, Paul J.
Light scattering by ice crystals (*with* **Thursby, W. R., Jr.**), 21.4–375
See also **Ohtake, T.**, 21.3–685
Hufford, Gary L.
U. S. Coast Guard Oceanographic Unit's participation in IWSOE-1969 (*with* **Elder, R. B.**), 21.4–644
Water masses of the Weddell Sea (*with* **Seabrooke, J. M.**), 21.9–717
Hufty, A.
Programme de recherches sur la climatologie urbaine de la région de Québec [Program of research on urban climatology in the area of Quebec], 21.4–353
Hugh-Jones, M. E., *see* **Smith, L. P.**, 21.9–396
Hughes, B. Mason, *see* **Tiernan, T. O.**, 21.3–356
Hughes, J. Kenrick
Lunar Orbiter-I preliminary results (*with* **Brewer, G. W.**) (*comps.*), 21.2–397
Hughes, Lawrence A.
Seasonal aspects of probability forecasts, Pt. 3, Winter, 21.1–257
See also **Waldheuser, H. W.**, 21.1–242
Hughes, Leon S., *see* **Robbins, Wallace D.**, 21.10–688
Hughes, Patrick
Century of weather service: a history of the birth and growth of the national weather service, 21.10–5
Early American weathermen, 21.10–48
The mythology of meteorology, 21.8–3

Hughes, Peter
  Submarine cable measurements of tidal currents in the Irish Sea, 21.2–799
Hujiwara, H., *see* **Sekikawa, T.**, 21.4–436
Hultqvist, Bengt
  Auroral and polar cap absorption, 21.6–228
Humphrey, Robert R., *see* **Hastings, J. R.**, 21.6–640, –641
Hundhausen, A. J.
  Discussion [on] interpretation of positive ion measurements made by the ARC quadrispherical electrostatic analyzer on Pioneer-6, 21.4–384
  Nonthermal heating in the quiet solar wind, 21.10–283
  Numerical simulation of flare-generated disturbances in the solar wind (*with* **Gentry, R. A.**), 21.2–144
  Plasma flow pattern in the Earth's magnetosheath (*with* **Bame, S. J.** and **Asbridge, J. R.**), 21.2–145
Hung, R. J., *see* **Liu, V. C.**, 21.7–193
Hungary. Országos Meteorológiai Intézet
  Beszámolók az 1967-ben végzett tudományos kutatásokról [Reports on scientific research carried out in 1967], 21.9–117R
Hungary. Vizgazdálkodási Tudományos Kutató Intézat. Vízrajzi Osztály
  Vĭzrajzi Évkőnyv, Vol. 71, 1966 [Hydrographic Yearbook, Vol. 71, 1966], 21.9–205R
Hunkins, Kenneth L.
  Nepheloid layers and bottom currents in the Arctic Ocean (*with* **Thorndike, E. M.** and **Mathieu, G.**), 21.8–828
  See also **Untersteiner, Norbert**, 21.11–755
Hunsucker, R. D., *see* **Flock, W. L.**, 21.9–162
Hunt, G. E.
  Discrete space theory of radiative transfer and its application to problems in planetary atmospheres (*with* **Grant, I. P.**), 21.4–427
Hunt, J. M., *see* **Deuser, W. G.**, 21.1–734
Hunten, Donald M.
  Upper atmosphere of Jupiter, 21.7–759
  Venus: the next phase of planetary exploration (*with* **Goody, R. M.**), 21.8–735
  See also **McElroy, Michael B.**, 21.10–620
Hunter, Jack A.
  Advances in desalting technology, 21.8–836
Hunter, James H.
  H α auroral activity on Jupiter, 21.11–586
Huovila, Seppo
  On the amount of dew in Finland, 21.5–585
Huppi, E. Ray
  Sunset to sunrise variations of the OH emission of the night sky (*with* **Stair, A. T., Jr.**), 21.7–354
Hurley, Charles W., Jr.
  Recent temperature and snowfall trends, 21.7–436
Hurley, Patrick A.
  Augmenting Colorado River by weather modification, 21.3–673
Hurry, D. G. W.
  Meteorological survey of Glen Nevis, summer 1968, 21.3–112
Hursh, John S., *see* **Spurgeon, W. I.**, 21.4–335
Hurst, G. W.
  Meteorological aspects of insect migrations, 21.4–233
  Temperatures in high summer, and honey production, 21.12–442
  Variability, with time and location, of spring and summer temperatures in the United Kingdom, 21.2–185
Huschke, R. E.
  Arctic cloud statistics from "air-calibrated" surface weather observations, 21.9–298
  Lag correlations between Arctic atmospheric heat loss and Northern Hemisphere circulation indices (*with* **Leovy, C. B.**), 21.5–400
Huss, A.
  Planetary circulations obtained by means of two-level quasi-geostrophic models with various formulations of diabatic heating (*with* **Doron, E.**), 21.3–431
Huss, Eduard
  Neuere Untersuchungen über die Windverhältnisse am Bodensee [Recent investigations on the wind conditions at the Bodensee] (*with* **Stranz, D.**), 21.3–601
Huss, P. O.
  Study of the variation of the wind gust factor, 21.6–516
Hutchinson, Peter
  Estimation of rainfall in sparsely gaged areas, 21.1–604
  Note on random rain-gage errors, 21.5–136
Hutchinson, W. C. A.
  Electric space charge within 20 meters of the ground, 21.9–426

  Electrification of ice and water, 21.8–650
  New pulse technique for measuring point discharge in the atmosphere (*with* **Stromberg, I. M.**), 21.7–65
Hutchison, Boyd A., *see* **Hanna, S. R.**, 21.5–252
Hutton, Daniel B., *see* **Carey, Roger B.**, 21.9–47
Huxham, S. H.
  On the extreme value distribution for describing annual flood series (*with* **McGilchrist, C. A.**), 21.7–780
Huxley, P. A.
  Simple wetness recorder (*with* **Waller, J. M.**), 21.10–78
Huyer, A.
  Heat budget of the water in Barrow Strait for 1962 (*with* **Barber, F. G.**), 21.9–734
Huzioka, Tosio
  Properties of snow cover at Avalanche Research Station, Toikanbetsu, Northern Hokkaido (*with others*), 21.4–292
  Properties of snow cover on the slope of Mt. Eniwa (*with others*), 21.2–269
  Properties of snow cover on the slopes of the Avalanche Research Station at Toikanbetsu, Northern Hokkaido, Pt. 2 (*with others*), 21.2–270
  Snow cover observations at Avalanche Research Station, Toikanbetsu, Northern Hokkaido, Pt. 3 (*with others*), 21.11–87R
Huzita, Akira
  Effect of radioactive fallout upon the electrical conductivity of the lower atmosphere, 21.7–224
Hwang, H. J.
  Power density spectrum of surface wind speed on Palmyra Island, 21.5–506
Hyde, T. R.
  Lesotho, 21.11–95R
Hyder, Charles L.
  Infall–impact mechanism and solar flares, 21.2–483
  Transits of Mercury and the sizes of small solar features, 21.2–455
Hydrology and Water Resources Research Group, University of Kyoto, Japan
  Annual report of hydrological research in the area of Lake Biwa, 21.9–648
Hydrology Symposium, 7th, Victoria, B. C., Oct. 8–9, 1969
  Instrumentation and observation techniques. Proceedings of the Symposium, 21.11–101
  Oceanology '69, 21.1–716
  This is what you missed, 21.1–725
Hyelm Hansen, Age
  Norway (*with* **Otnes, J.**), 21.11–95R
Hynitzsch, G.
  Messfahrt im Kuroshio [Measurement cruise in the Kuroshio], 21.12–766
Hyson, P.
  Physics of measurement of the wire temperature sensing system for rocket systems, 21.12–89
  Windfinding data from radar tracking of high altitude sensors, 21.1–182

I

Iakimets, E. M., *see* **Osipova, T. I.**, 21.5–748
Iakovlev, B. R.
  Example of using a meteorological radar station to observe the scattering of a frontal overcast during artificial seeding [Transl. from Russian], 21.7–115
Iakovlev, S. G., *see* **Tulinov, V. F.**, 21.6–420
Iakovleva, G. D., *see* **Kurskaia, A. A.**, 21.9–48R
Iakovleva, L. P.
  K prognozu osobo opasnykh snegopadov [Forecasting especially dangerous snowfalls], 21.12–145
Iakovleva, N. I.
  Ob avtokolebatel'nom kharaktere izmeneniia klimata [Auto-oscillating character of climatic changes], 21.9–376
  Primenenie statisticheskikh glavnykh komponentov dlia tselei ob"ektivnoĭ klassifikatsii meteorologicheskikh situatsiĭ i poleĭ [The use of the main statistical component for the purpose of objective classification of meteorological situations and fields], 21.10–100
Iakshina, A. M.
  Raskhodnaia chast' balansa organicheskogo veshchestva u podrosta duba v zavisimosti ot svetovykh usloviĭ [Timber fall of juvenile forest depending on the light conditions], 21.1–425
Iakunina, Z. M., *see* **Kazariants, E. S.**, 21.9–319
Ianev, Dr., *see* **Stanev, Sv.**, 21.1–518
Ianishevskii, Iu. D., *see* **Klevantsova, V. A.**, 21.8–55; **Sivkov, S. I.**, 21.9–82R
Iankina, Z. S., *see* **Shpaĭkher, A. O.**, 21.2–214; 21.4–743

Ianovitskiĭ, E. G.
  Ob aerozol'noĭ sostavliaiushcheĭ atmosfery Marsa [Aerosol component of the Martian atmosphere], 21.12–5
  Neodnorodnaia polubeskonechnaia atmosfera pri chistom rasseianii [Inhomogeneous semiinfinite atmosphere during pure scattering], 21.9–468
  See also **Koval', K. K.,** 21.10–617
Iarnykh, N. A.
  O nekotorykh zakonomernostiakh formirovaniia peschanykh griad na primere reki Lugi [Some regularities of sand bank formation using the Luga River as an example], 21.12–711
Iaroshevskiĭ, V. A.
  Agrometeorologicheskie pokazateli kachestva urozhaia iarovoĭ pshenitsy [Agrometeorological qualitative indices of the spring wheat yield] (*with* **Totyleva, V. P.**), 21.4–343
Iaroslavtsev, N. A.
  Issledovanie i raschet mutnosti vody Gor'kovskogo vodokhranilishcha [Study and calculation of the turbidity of waters of the Gorki reservoir] (*with* **Shmeleva, E. A.**), 21.10–762
  Sgonno-nagonnye iavleniia na Gor'kovskom vodokhranilishche [Ebb and surge phenomena in the Gorki water reservoir] (*with* **Iaroslavtsev, N. A.**), 21.10–768
Iaroslavtseva, D. I.
  K voprosu o raschete vetrovykh voln na vodokhranilishchakh [Problem of wind wave calculations on water reservoirs], 21.7–798
Ibadan, Nigeria. Univ. College. Dept. of Geography
  Climatic observations at University of Ibadan, Nigeria, 21.3–107
Ibrahim, I. I., *see* **Kamal, T. H.,** 21.11–469, –470
Ibraimov, N. M.
  O nekotorykh opticheskikh svoĭstvakh atmosfery na vysote 750 i 1450 metrov nad urovnem moria [Some optical atmospheric properties on the high 750 and 1450 m above sea level] (*with* **Toropova, T. P.** and **Kharitonova, G. A.**), 21.5–676
Ibukhova, M. V.
  Ob izmenenii radiatsionnoi temperatury pri evoliutsii frontov [Radiation temperature variations during frontogenesis] (*with* **Fadeeva, N. A.**), 21.12–443
Icefield Ranges Research Project
  Scientific Results, 21.9–381
Iceland. Vedurstofan
  Vedrattan [Climatic data from the Iceland Meteorological Service], 21.9–206R
Ichikawa, T.
  Relationship between a monochromatic auroral arc of 6300 Å and a visible aurora (*with others*), 21.11–515
  See also **Graham, D. A.,** 21.11–494
Ichiye, Takashi
  Development of geostrophic eddies, 21.2–740
  Theory of coastal upwelling based on a two-layer ocean model and its application to the eastern Pacific Ocean, 21.9–720
Idso, Sherwood B.
  Atmospheric attenuation of solar radiation, 21.5–454
  Light relations in plant canopies, 21.7–324
  Method for determination of infrared emittance of leaves (*with others*), 21.8–240
  Relations of radiation fluxes over natural surfaces (*with* **Baker, D. G.** and **Blad, B. L.**), 21.1–438
  Seasonal changes in the vertical distribution of dust of the lower troposphere (*with* **Kangieser, P. C.**), 21.12–241
  Thermal radiation from the atmosphere (*with* **Jackson, R. D.**), 21.7–347
  Transmittance of the atmosphere for solar radiation on individual clear days, 21.10–275
Ielenicz, Mihai, *see* **Popescu, Nicolae,** 21.11–725
Ige, G. A.
  Meteorology and agriculture, 21.11–10
Iglauer, Edith
  Ambient air, 21.1–274
Ignatenko, V. I., *see* **Volkovitskiĭ, O. A.,** 21.3–419
Ignat'ev, Iu. A., *see* **Gershman, B. N.,** 21.8–175
Ignatiushina, E. N.
  Rol'sredneĭ meridional'noĭ tsirkuliatsii v energeticheskom balanse atmosfery [Role of average meridional circulation in atmospheric energy balance], 21.11–254
Ignatov, V. S.
  On the relationship between auroras, and ionospheric and magnetic disturbances in the Antarctic, 21.9–170
Iijima, Takesi, *see* **Kamide, Yohsuke,** 21.7–719

Ikebe, Y., *see* **Kawano, M.**, 21.9–434

Ikebuchi, Shuichi, *see* **Takasao, Takuma**, 21.11–690

Ikeda, Giichi, *see* **Tsurumi, Sakuro**, 21.9–433

Ikeda, H., *see* **Takasugi, M.**, 21.7–309

Ilešič, Svetozar
Reżimy rzek w Jugosławii [River regimes of Yugoslavia], 21.4–583

Il'iasov, A. T.
Stok i vodnyĭ balans rechnykh basseĭnov Kirgizii [Runoff and water balance of Kirghizian river basins], 21.8–451

Iliescu, Cornelia, *see* **Berbecel, Octavian**, 21.8–533; **Socor, Elena**, 21.9–398

Iliescu, Maria
Condiţi aero-sinoptice caracteristice pentru producerea fenomenelor orajoase de origine frontală în su-estul teritoriului Republicii Socialiste România [Specific weather synoptic conditions for producing frontal thunderstorm events in the southeastern end of the Socialist Republic of Rumania] (*with* **Stăncescu, I.**), 21.3–478
See also **Stăncescu, I.**, 21.7–311

Il'in. A. M.
O raschete polnykh potokov v Mirovom okeane: statsionarnaia zadacha [Calculation of the total flows in the World ocean: stationary problem] (*with others*), 21.8–840

Il'in, B. M.
Ob odnoĭ skheme prognoza polia davleniia u zemli, 21.7–100
Obrabotka bazisnykh sharopilotnykh nabliudeniĭ na EVM "Ural-4" [Processing of pilot-sphere base observations by use of the electronic computer "Ural-4"] (*with* **Chestnaia, I. I.**), 21.7–22

Il'in, Iu. V., *see* **Al'tman, E. N.**, 21.2–706

Il'in, V. D.
Neadiabaticheskie poteri zhakhvachennykh protonov v dipol'noĭ lovushke Zemli [Non-adiabatic losses of trapped protons in the dipole trap of the Earth], 21.8–276

Il'ko, Jozef
Porovnanie vyskytu hmiel na letiskach sliac a tatry, Obdobie 1956–1965 [Comparison of fogs on the airports in Sliac and Tatry, 1956–1965] (*with* **Nedelka, M.**), 21.9–291

Illinois. State Water Survey, Univ. of Illinois, Urbana
Study of rainout of radioactivity in Illinois, 21.11–276
See also **Changnon, S. A., Jr.**, 21.4–299; **Huff, F. A.**, 21.5–205; **Schickedanz, P. T.**, 21.5–693

Iltis, Hugh H.
Criteria for an optimum human environment (*with* **Loucks, O. L.** and **Andrews, P.**), 21.8–547

Imada, Masaru
Tentative treatise on predicting the concentrative cloudburst, using the concept of air–layer pregnant with instability (*with* **Matano, H.** and **Komatsu, O.**), 21.7–96

Imhof, W. L.
High-resolution studies of electrons 25 kev to 2.7 Mev precipitating at high latitudes (*with* **Gaines, E. E.** and **Reagan, J. B.**), 21.8–275
Source of high-energy protons trapped on low L shells (*with* **Reagan, J. B.**), 21.11–294

Imianitov, I. M.
K voprosu ob elektrizatsii oblachnykh chastits posle razryva kontakta mezhdu nimi [The problem of electrification of cloud particles after contact between them is broken], 21.8–655
On cloud particles electrification secondary to breaking of their contacts, 21.9–438
Izuchenie atmosfernogo elektrichestva [Study of atmospheric electricity] (*with* **Kolokolov, V. P.** and **Solov'ev, V. A.**), 21.9–42R
Thunderstorm cloud (*with* **Evteev, B. F.** and **Kamaldina, I. I.**), 21.8–616

Impens, I.
Extinction of net radiation in different crop canopies (*with* **Lemeur, R.**), 21.7–335
Radiation balance of several field crops (*with* **Lemeur, R.**), 21.4–129

Inaba, Humio
Laser–Raman radar for chemical analysis of polluted air (*with* **Kobayasi, T.**), 21.5–258

Inagamova, S. I.
Raspredelenie integral'nykh kharakteristik obshcheĭ tsirkuliatsii atmosfery pri razlichnykh tipakh sinopticheskikh protsessov nad Sredneĭ Azieĭ [Distribution of the integral characteristics of general atmospheric circulation in different types of synoptic processes over Central Asia] (*with* **Milokhova, E. N.**), 21.1–382

Inard, A., *see* **Vadot, L.**, 21.6–490
India. Central Board of Irrigation and Power
Symposium on Efficiency of Water Distribution and Use on the Land, Ooty, June 1962, 21.4–400
India. Meteorological Department
Rainfall and floods during 1967 southwest monsoon period, 21.7–494
Indian Journal of Met. and Geophysics [Delhi]
Weather: post-monsoon season, October–December 1968, 21.6–54
Indzhgia, R. G., *see* **Dimitriev, A. A.**, 21.1–456
Ineson, J.
Combined use of surface and ground waters, associated with controlled groundwater development, 21.9–621
Ingebo, Paul A.
Effect of heavy late-fall precipitation on runoff from a chaparral watershed, 21.1–56
Ingels, Raymond M., *see* **Gordon, R. J.**, 21.5–251
Ingersoll, Andrew P.
Dynamics of Jupiter's cloud bands (*with* **Cuzzi, J. N.**), 21.6–711
Inertial Taylor columns and Jupiter's Great Red Spot, 21.2–449
Runaway greenhouse, 21.5–707
Ingham, M. F.
Pre-dawn enhancement of the 6300 Å (OI) line in the nightglow, 21.7–355
Sources of the Lyman-O (emission in the night sky, 21.8–249
Ingham, Merton C.
Coastal upwelling in the northwestern Gulf of Guinea, 21.12–764
"Mixed layer" in the western tropical Atlantic Ocean, 21.2–749
Ingraham, W. James, Jr.
Physical–chemical oceanographic data from the North Pacific Ocean, 1966–1968 (*with* **Fisk, D. M.**), 21.2–665
Ingram, Douglas L., *see* **Weaver, Morris E.**, 21.7–432
Ingram, R. G.
Pilot study of ice drift in the Gulf of St. Lawrence (*with* **Johannessen, O. M.** and **Pounder, E. R.**), 21.7–825
Ingvalson, R. D., *see* **Rhoades, J. D.**, 21.11–442
In'kov, B. K.
Resul'taty vyborochnogo sopostavleniia materialov nabliudenii za dal'nimi grozovymi ochagami so sputnikovymi dannymi [Findings of selective data comparison from observations on distant thunderstorm foci with satellite data], 21.7–300
See also **Makhotkin, L. G.**, 21.7–303; 21.8–29, –31; 21.9–74, –458
Inman, Douglas L., *see* **Bowen, Anthony J.**, 21.12–770
Inoue, Masao, *see* **Iwagaki, Yuichi**, 21.12–794
Institute of Geophysics, Tehran University
Report on the measurement of atmospheric electricity in Tehran, 21.9–424
Inston, H. H.
Dispersion of h.f. pulses by ionospheric reflection, 21.6–229
Instrumentation Technology (Pittsburgh)
Anatomy of a thunderstorm: scientists participate in international study aimed at controlling weather, 21.9–206
Int, L. E., *see* **Adamenko, V. N.**, 21.6–459
Intergovernmental Conference of Experts on the Scientific Basis for Rational Use and Conservation of the Resources of the Biosphere, Paris
Use and conservation of the biosphere: Proceedings of the Conference, 21.12–590
International Air Transport Association
Meteorological Requirements for future airline operations, 21.12–12
International Association of Geomagnetism and Aeronomy
Auroral and airglow observing stations, 21.10–36
International Assn. for Quaternary Research, 7th, Fairbanks, Alaska, Aug. 18–25, 1965, *see* **Péwé, T. L.**, 21.5–488
International Assn. for Quaternary Research, 8th Congress, Paris, 1969
Golotsen [The Holocene period], 21.5–667
Posledniĭ lednikovyi pokrov na Severo-Zapade Evropeĭskoĭ Chasti SSSR [Last glaciation in the northwest part of the European U.S.S.R.], 21.1–8
See also **Gerasimov, T. P.**, 21.1–8
International Association of Scientific Hydrology
Biblĭografia Hydrologiczna, 1965, Polska [Hydrological Bibliography, 1965 for Poland], 21.1–48
International Astronomical Union
Physics and dynamics of meteors, 21.4–488

  Structure and development of solar-active regions, 21.4–494

International Atomic Energy Agency, Vienna
  Environmental isotope data No. 1; World survey of isotope concentration in precipitation (1953–1963), 21.1–40
  Role of the International Atomic Energy Agency in the development, use and control of water resources, 21.6–736

International Civil Aviation Organization
  Present state of knowledge regarding performance characteristics and the operation of SST aircraft, 21.12–13

International Civil Aviation Org. All-Weather Operations Panel, 3rd Meeting, Montreal, April 4–21, 1967
  Proceedings, Vol. 2, 21.5–12

International Commission for the Northwest Atlantic Fisheries, Dartmouth, Nova Scotia
  Environmental Surveys, NORWESTLANT 1–3, 1963, pt. 1, Test and figures, 21.12–14

International Conference on Condensation and Ice Nuclei, 7th, Prague & Vienna, Sept. 18–24, 1969
  Proceedings, 21.12–499

International Conference on the Universal Aspects of Atmospheric Electricity, 4th, Tokyo, 1968
  Planetary electrodynamics: Proceedings of the 4th Conference, 21.9–422

International Conf. on Water for Peace, Wash., D. C., May 23–31, 1967, 501
  Water for peace, 21.4–501
  Water for peace, Vol. 1, 21.11–95R

International Council for the Exploration of the Sea, Copenhagen
  Joint Skagerrak Expedition, 1966 (Publications), Vol. 4, Current measurements (and) turbidity records, 21.8–818

International Council for the Exploration of the Sea. Hydrographic Service, Charlottenlund, Denmark
  Monthly means of surface temperature and salinity for areas of the North Sea and the northeastern North Atlantic in 1958, 21.11–61R

International Council of Scientific Unions
  Intercomparison of some current meters, 21.7–835

International Council of Scientific Unions. Committee on Space Research, 11th Plenary Meeting, Tokyo, May 9–21, 1968
  Proceedings of the open meetings of working groups, 21.7–41
  Small rocket instrumentation techniques, 21.5–90
  Solar flares and space research: Proceedings, 21.11–547
  Guide for international exchange of data in solar-terrestrial physics, 21.8–563

International Council of Scientific Unions, Rome
  Yearbook, 1969, 21.9–118R; For abstract on 1968 *see Met. Abs.*, 19.9–45

International Hydrological Decade. Panel of Experts
  Problems of study and research on hydrology forecasting, 21.4–543

International Hydrological Decade. U. S. National Committee for the IHD
  Representative and experimental research basins in the United States, 21.7–801

International Institute of Land Reclamation and Improvement, Wageningen, Netherlands
  Annual Report, 1968, 21.9–119R

International Meteorological Institute, Stockholm
  Report on the work at the International Meteorological Institute in Stockholm during the period 1.7.1968–30.6.1969, 21.8–4

International Meteorological Symposium on Air Pollution, Leningrad, July 23–31, 1968
  Summary and listing of papers, 21.1–297

International Oceanographic Congress, 2d, Moscow, May 30–June 9, 1966
  Morning review lectures, 21.12–6R

International Space Science Symposium, 9th, *see* International Council of Scientific Unions. Committee on Space Research, 11th Plenary Meeting, Tokyo, May 9–21, 1968, 21.7–41

International Symposium on Atmospheric Trace Constituents and Atmospheric Circulation, Heidelberg, 1969
  papers, 21.10–137

International Symposium on Floods and their Computation, Leningrad, Aug. 15–22, 1967
  Proceedings, 21.8–472

International Symposium on Physics of Ice, Munich, Germany, 1968
  Physics of ice: Proceedings of the . . . Symposium, 21.7–820

International Symposium on Rarefied Gas Dynamics, 5th, Univ. of Oxford, July 1966
Rarefied gas dynamics: Proceedings of the Symposium, Vol. 2, 21.1–27
See also **Brundin, C. L.** (ed.), 21.1–27

International Years of the Quiet Sun, 1964–1965
Solar–terrestrial physics: solar aspects (Proceedings of the Joint IQSY/COSPAR Symposium, London, 1967, Pt. 1), 21.1–28
Solar–terrestrial physics: terrestrial aspects, 21.7–700
See also **Strickland, A. C.**, 21.1–28

Inter-Union Commission on Solar and Terrestrial Relationships, Wash., D. C.
Conclusions of (its) Ad Hoc Panels convened at Urbana Meeting, Sept. 27, 1968, 21.8–564

Inter-Union Commission on Solar–Terrestrial Physics, Wash., D. C.
STP Notes, 1969, 21.7–701

Intriligator, Devrie S.
Preliminary comparison of solar wind plasma observations in the geomagnetospheric wake at 1000 and 500 Earth radii (*with others*), 21.2–146

Ionina, S. N., *see* **Shifrin, K. S.**, 21.9–78R

Iordanov, Dimitŭr
Über das elektrische Feld in der bodennahen Luftschicht [On the electric field in the layer near the ground], 21.3–690
Über die turbulent Diffusion in der Bodenschicht [Turbulent diffusion in the ground layer], 21.7–252

Ioselev, Ia. Kh.
Pervyĭ russkiĭ sinoptik [The first Russian forecaster], 21.11–52R

Ioshpa, B. A.
On the magnetic-field structure around filaments, 21.11–650

Ĭotov, Il. G.
Metod za opredeliane khidrogeolozhkite parameteri na vodoobilni vodonosni khorizonti [A method for determining the hydrogeological parameters of water-rich aquifer horizons] (*with* **Mollov, D.**), 21.6–772

Iozenas, V. A.
Issledovanie planetarnogo raspredeleniia ozona po ul'trafioletovym spektram, izmerennym na sputnikakh [A study of planetary ozone distribution by satellite ultraviolet spectra] (*with others*) [and English transl.], 21.3–362
Issledovaniia ozonosfery Zemli so sputnikov [Studies of the Earth's ozonosphere from satellites], 21.1–325

Irbe, J. G., *see* **Richards, T. L.**, 21.6–470

Ireland. Meteorological Service
Measurements of radioactivity of precipitation, settled dust and airborne particles in Ireland, 4th Quarter, 1969 (Oct.–Dec. incl.), 21.11–70R

Ireland, W., *see* **Preddey, G. F.**, 21.3–159

Irvine, S. G.
Shetland blizzard, 1969, 21.4–228
Shetland's record-breaking weather year, 21.11–90R

Irvine, William M.
Observations of atmospheric extinction from 0.315 to 1.06 microns (*with* **Peterson, F. W.**), 21.6–672
See also **Uesugi, A.**, 21.4–485; 21.6–689

Isaacs, John D., *see* **Schwartzlose, R. A.**, 21.4–696

Isaakian, Ia. S.
Uluchshenie termicheskogo rezhima v bol'shikh gorodakh so slozhnym rel'efom i zharkim kilmatom [Improvement of the thermal regime in large cities with a complex terrain and a hot climate] (*with* **Karamian, A. O.** and **Kosoian, G. E.**), 21.6–428

Isaev, A. A.
Ob izmenchivosti osadkov po territorii v teplyi period goda po dannym obninskogo eksperimental'nogo poligona [The variability of precipitations over a territory in the warm period according to data of the Obninsk experimental polygon], 21.7–602

Isaev, H. V.
Ob odnom konechno-raznostnom algoritme resheniia uravneniia vikhria dlia sredneĭ troposfery nad severnym polushariem [A finite-difference algorithm for the solution of the vorticity equation for the middle troposphere over the Northern Hemisphere] (*with* **Fuks-Rabinovich, M. S.**), 21.1–220

Isaev, S. I., *see* **Fel'dshtein, Ia. I.**, 21.10–508

Isaka, H., *see* **Mayoral, J. R.**, 21.12–180

Ishchenko, V. N.
Obledenenie provodov na territorii Verkhne-Volzhskogo upravleniia gidrometsluzhby [Icing of cables in the area

of the Upper Volga hydrometeorological service administration], 21.2–251
Ishibashi, Masayoshi
  Distribution and regular relationships of quantities of chemical elements in sea water, including so-called nutrient elements, 21.12–7R
Ishida, Akira, *see* **Kakinuma, Tadao**, 21.12–781, –788, –789
Ishida, Yoshio
  Report of cosmic-ray neutron observation in the 8th Japanese Antarctic Research Expedition, 1967–1968 (*with* **Kodama, M.**), 21.8–305
Ishihara, Kenji
  Characteristics of snow cover in Japan, 21.8–444
Ishihara, Tojiro
  Basic study on statistical laws of channel distribution in river basins (*with others*), 21.11–719
Ishihara, Yasuo
  Occurrence of direct runoff in mountain area (*with* **Kobatake, S.**), 21.11–425
  On the basin characteristics of the experimental area for runoff in the River Ara (*with others*), 21.11–718
  Reynolds stresses in a river current (*with others*), 21.11–735
  Seasonal characteristics of time series of runoff amount (*with* **Nagao, M.**), 21.11–689
  Ultrasonic flowmeters for measuring river turbulence (*with* **Yokosi, S.**), 21.2–603
Ishikawa, George, *see* **Maeda, K.**, 21.3–352
Ishikawa, H.
  Balloon observation of atmospheric electrical conductivity up to 24 km in altitude (*with* **Morita, Y.** and **Takagi, M.**), 21.10–56
Ishimaru, A.
  Fluctuation of focused beam wave for atmospheric turbulence probing, 21.3–80
Ishino, Makoto
  Oceanographic conditions in the West Pacific Southern Ocean in summer of 1964–1965 (*with others*), 21.6–826
Ishizaki, Hatsuo
  On the long period fluctuation of surface winds, Pt. 1 (*with* **Mitsuta, Y.** and **Hanafusa, T.**), 21.10–332
  Studies of the third Miyakojima typhoon, 21.12–382
Ishizuka, K., *see* **Kinosita, T.**, 21.8–461
Iskendirov, T.
  Stokhasticheskii analiz kolebanii urovnia oz. Balkhash [Stochastic analysis of level variations of the Balkhash Lake], 21.7–815
  Veroiatnostnyĭ analiz mnogoletnikh kolebaniĭ urovnia oz. Balkhash [Probability analysis of multi-year fluctuations in the level of Lake Balkhash], 21.6–789
Isobe, Takeshi, *see* **Hasegawa, S.**, 21.2–71
Isono, Kenji
  Growth mode of ice crystals in air at low pressure (*with* **Iwai, K.**), 21.5–583
Isozaki, Ichiro
  Investigation on the variations of sea level due to meteorological disturbances on the coast of the Japanese Islands, Pt. 1, 21.4–764
  Investigation on the variations of sea level due to meteorological disturbances on the coast of Japanese Islands, Pt. 3, 21.6–322
Israël, Hans
  Einführung in die Geophysik [Introduction to geophysics], 21.1–9
  Measurements of the thoron concentration of the lower atmosphere in relation to the exchange in this region (*with others*), 21.12–324
  Raumklimatische Untersuchungen im Zusammenhang mit Spinnereiproblemen [Studies in environmental climatology with regard to problems in the weaving industry] (*with* **Kropp, R.**), 21.2–350
  Remarks concerning the "ten-years period" of atmospheric electric research, 21.9–423
  Untersuchungen luftelektrischer Einflüss auf Körper in der freien Atmosphäre [Investigations of the influence of atmospheric electricity on solid bodies in the free atmosphere] (*with* **Stiller, S.**), 21.12–66
Israel. Hydrological Service
  Hydrological Year-book of Israel, 1966/67, 21.2–520
Israel. Meteorological Service
  Report on progress in agricultural meteorology in Israel, 1967–1970, 21.11–11
Isreäl, F.
  Venusonderzoek van nabij [Venus research from close by], 21.8–736
Issar, A.
  Groundwater provinces of Iran, 21.1–779
Istomin, V. G.
  Nauchnye i prakticheskie aspekty issledovaniia struktury i variatsii parametrov verkhneĭ atmosfery Zemli [Scientific and practical aspects of investigations

into the structure and parameter variations of the upper Earth's atmosphere] (*with* **Marov, M. Ia.** and **Mikhnevich, V. V.**), 21.3–349

Istomina, L. G.

O prostranstvennoi strukture polia iarkosti Zemli po izmereniiam so sputnika "Kosmos-149" [Spatial structure of the brightness field from measurements by the satellite Cosmos-149] (*with others*), 21.12–416

See also **Malkevich, M. S.**, 21.6–364

Italconsult Argentina, S. A.

Control, conservation, and rational use of the soil and water resources in the District of Olavarria, Province of Buenos Aires, Argentina, 21.9–615

Italy. Commissione di Studio per la Oceanografia e la Limnologia

Programma di recerca sulle risorse marine e del fondo marino: relazione sull'attivita al 31 dicembre 1967 [Research program on marine resources and the sea floor: report of activities through Dec. 31, 1967], 21.7–830

Italy. Inst. di Fisica dell' Atmosfera

Relazione sull' attività organizzativa, scientifica e didattica dell' Instituto di Fisica dell' Atmosfera nell' esercizio finanziario 1968 [Report of the organizational, scientific and teaching activity of the Instituto di Fisica dell' Atmosfera, financial year 1968], 21.5–13

Italy. National Coordinating Committee [for the International Conference on Water for Peace]

General conditions of water in Italy, 21.11–95R

Italy. Servizio Idrografico

Standard average values of monthly and yearly flows of Italian rivers: hints of characters of turbidness and of chemical qualities of waters, 21.9–653

Standard values of rainfalls in Italy during the period from 1921 to 1960: hints on light and heavy rainfalls during the period from 1921 to 1960, 21.8–386

Italy. Servizio Met. dell'Aeronautica Militare

Frequenze e medie delle osservazioni eseguite nel ventennio 1946–65, stazione meteorologica di Roma (Ciampino) i Roma (Fiumicino, 1959–1968), 21.6–55

Ito, H.

Time and space variation in meteorological elements in the aerodrome and its vicinity, 21.12–560

Iudin, M. I.

Consideration of group errors of numerical forecasts as means of improving their accuracy (*with* **Kudashkin, G. D.**), 21.5–161

Nekotorye primeneniia statisticheskogo podkhoda v chislennykh prognozakh [Some applications of the statistical approach to numerical forecasts], 21.8–93

O printsipial'nykh voprosakh fiziko-statisticheskoĭ metodiki dolgosrochnykh prognozov pogody bol'shoĭ zablagovremennosti [Principle problems of physical statistical methods of long range weather forecasting a long time in advance], 21.3–272

See also **Dubov, A. S.**, 21.9–23R

Iudin, O. I.

Kvaziperiodicheskie nizkochastotnye fluktuatsii radioizlucheniia solntsa [Quasi-periodic low frequency fluctuations of solar radio emissions], 21.7–748

O vozmozhnosti otsenki nekotorykh parametrov khromosfery po dannym radionabliudenii [Potential for estimation of certain chromosphere parameters from data of radio observations], 21.12–632

Iudovich, L. A., *see* **Besprozvannaia, A. S.**, 21.12–292; **Kiianovskiĭ, M. P.**, 21.10–171

Iukhimenko, E. I., *see* **Tkachenko, A. V.**, 21.10–381

Iukhimuk, A. K.

Ob uskorenii zariazhennykh chastits v mezhplanetnoĭ srede [Charged particle acceleration in interplanetary space] (*with* **Kats, M. E.**) [and English transl.], 21.4–489

Iunitsyna, V. P.

Opyt otsenki protsessa beregovogo regulirovaniia rechnogo stoka v basseĭne r. Severskogo Dontsa [Attempt at an estimate of bank regulation of streamflow in the basin of the Severskiy Donets River], 21.9–43R

Iurganov, L. N., *see* **Osherovich, A. L.**, 21.9–150

Iurgenson, A. P.

O spektral'nom pogloshchenii dlinnovolnovoĭ radiatsii v atmosfere [Spectral absorption of long-wave radiation in the atmosphere], 21.10–18R

Iushenko, G. P., *see* **Chistiakov, A. D.**, 21.12–544; **Sorochinskiĭ, M. A.**, 21.1–517

Iuskeselieva, L. G.
Relaksatsiia zariada elektrofotograficheskoi poverkhnosti pri vzaimodeistvii s zhidkimi atmosfernymi aerozoliami [Relaxation of the charge of an electrophotographic surface during interaction with liquid (atmospheric) aerosols] (*with* **Antonov, A. S.**), 21.9–71
Ivanchenko, L. V., *see* **Bakhanova, R. A.,** 21.12–510
Ivankhnenko, S. D.
Nadezhnost’ iacheek avtomatiki tsentral’nogo ustroĭstva aerodromnoĭ meteostantsii [The reliability of automation elements in the central system of meteorological airport stations], 21.8–71
Ivanov, A. I.
Rasseianie sveta v atmosfere, Chast’ 2 [Light scattering in the atmosphere, Pt. 2] (*with others*), 21.9–44R
Ivanov, A. P.
Opredelenie pokazatelia oslableniia vodnykh i vozdushnykh basseĭnov po izmereniiu nestatsionarnogo rasseianiia sveta [Determination of the extinction factor of aqueous and air basins by measuring nonstationary light scattering] (*with* **Skrelin, A. L.**), 21.9–416
Rasprostranenie korotikikh svetovykh impul’sov v vodnoĭ srede [Propagation of short light pulses in the water] (*with others*) [and English transl.], 21.2–615
Ivanov, B. N.
Osnovnye karstovye raiony Ukrainy i Moldavii i osobennosti formirovaniia stoka rek na ikh territorii [The basic karst regions of the Ukraine and Moldavia and peculiarities in the formation of river runoff on their territories] (*with* **Drozd, N. I.**), 21.11–709
See also **Boĭko, L. I.,** 21.11–698; **Sov. po Vop. Kompleks. Izuch. Rezh. Poverkh. i Podzem. Vod v Karstovykh R., 1st, Simferopol, 1966,** 21.7–774
Ivanov, Iu. A.
Osobennosti rasprostraneniia vozmushcheniĭ na ogranichennoĭ β-ploskosti [Peculiarities of disturbance propagation on a limited β-plane], 21.9–707
Ivanov, K. E.
Hydrologic substantiation and computation of the reduction of forests and the expansion of naturally waterlogged areas after underflooding in river systems (*with* **Shumakova, E. L.**) [Transl. from Russian], 21.2–555
Ivanov, K. G.
Ob usloviiakh sokhraneniia tsirkuliatsii skorosti v solnechnom vetre [The conditions of maintaining speed circulation in solar wind], 21.7–369
Svoĭstva potoka mezhplanetnoĭ plazmy na razlichnykh meridional’nykh rasstoianiiakh ot tsentra aktivnoĭ oblasti [Property of interplanetary plasma streams at different longitudinal distances from the center of the active region], 21.7–370
Tangentsial’nyi razryv v solnechom vetre i nazemnoe magnitnoe voxmushchenia [Tangential discontinuity in solar wind and terrestrial magnetic disturbances] (*with* **Mikerina, N. V.**), 21.8–277
Ivanov, V. B.
Eolovye formy mikrorel’efa snezhnoĭ poverkhnsoti na lednikakh Antarktidy i Arktiki [Eolian forms of snow cover microrelief of the Antarctic and Arctic glaciers], 21.6–618
Ivanov, V. I.
Structure of the temperature field at the ocean surface (*with* **Monin, A. S.** and **Paka, V. T.**) [Transl. from Russian], 21.4–659
See also **Vimberg, G. P.,** 21.11–32R
Ivanov, V. Kh.
K voprosu o raspredelenii ochagov maksimal’nykh skorostei vetra v zone troposfernykh struinykh techenii [Distribution of foci of maximum wind speeds in the tropospheric jet stream zone], 21.12–485
Oblasti maksimal’noĭ skorosti vetra v troposfernykh struinykh techeniiakh pri razlichnykh sinopticheskikh usloviiakh [Areas of maximum wind velocity in tropospheric jet streams under different synoptic conditions], 21.10 344
Radiozondirovanie atmosfery v zone struĭnogo techenii nad Moskvoĭ [Radiosounding of the atmosphere in the jet current zone over Moscow], 21.6–56
Ivanov, V. N.
O strukture polia temperatury poverkhnosti okeana [Structure of the temperature field at the ocean surface] (*with* **Monin, A. S.** and **Paka, V. T.**) [and English transl.], 21.2–765
Ivanov, V. V.
Metod rascheta stokovoĭ sostavliaiushcheĭ kolebaniĭ urovnia v ust’iakh rek [Method for computing the runoff component of

level fluctuations at river mouths], 21.9–45R
See also **Arsenin, V. Ia.**, 21.3–343
Ivanov-Kholodnyĭ, Gor Semenovich
Kvaziravnovesnye kontsentratsii ionov v E-oblasti ionosfery [Quasi-equilibrium concentrations of ions in the ionosphere E-region] (*with* **Korsunova, L. P.**) [and English transl.], 21.4–64
Otsenka kontsentratsii otritsatel'nykh ionov v oblasti D ionosfery [Evaluation of negative ion concentrations in the D-region of the ionosphere] [and English transl], 21.4–65
Solntse i ionosfera: korotkovolnovoe izluchenie solntsa i ego vozdeĭstvie na ionosferu [Sun and ionosphere: short-wave solar radiation and its effect on the ionosphere] (*with* **Nikol'skiĭ, G. M.**), 21.9–171
See also **Antonova, L. A.**, 21.6–455
Ivanova, E. T.
Raspredelenie oblachnykh chastits po "vozrastam" [The age distribution of cloud particles] (*with* **Kabanov, A. S.**), 21.7–566
Ivanova, G. Ia., *see* **Starshov, I. M.**, 21.3–52
Ivanova, I. N.
Ob opredelenii uglov ataki meteorologicheskikh raket [Determination of the angle of attack of meteorological rockets], 21.12–67
Thermospheric temperatures in the Central Arctic (with **Kokin, G. A.** and **Chizhov, A. F.**), 21.6–458
Ivanova, S. N.
Mezhmesiachnaia izmenchivost'srednikh mnogoletnikh znacheniĭ temperatury i davleniia v svobodnoĭ atmosfere nad Sredneĭ Azieĭ i Kazakhstanom [Intermonthly variability of average perennial values of temperature and pressure in the free atmosphere above Central Asia and Kazakhstan], 21.10–19R
Ivanova-Zubkova, N. Z.
Klimat i produktivnost' grechikhi na Evropeĭskoĭ territorii SSSR [Climate and productivity of buckwheat in European U.S.S.R.], 21.9–384
Ivanovici, Hortensiu
Meteorosensibilitatea în cursul richettsiozelor cronice [Meteor sensitivity during chronical richettsioses], 21.11–467
Variatiile proceselor meteorologice în corelatie cu variatiile complexului hipoteniei leiomusculare la subiectii purtători de richettsi [Variations in weather events put in correlation with variations in the leiomuscular hypotony complex in rickettsia-bearing subjects], 21.11–468
Ivanovskiĭ, A. I.
Trekhkomponentnaia model' pokoiashcheĭsia atmosfery [A three-component model of the static atmosphere] (*with* **Marchevskiĭ, V. A.** and **Repnev, A. I.**), 21.6–200
Uravneniia gidrodinamiki dlia modeli pokoiashcheĭsia termosfery [Hydrodynamical equations for a model of static thermosphere] (*with* **Repnev, A. I.** and **Shvidkovskiĭ, E. G.**), 21.7–160
Ivlev, L. S.
Effektivnost' osazhdeniia aerozol'nykh chastits na ploskuiu podlozhku [Effectiveness of depositing aerosol particles on a plane backing], 21.10–20R
K voprosu o roli mekhanizmov raspredeleniia i istochnikov atmosfernogo aerozolia [Problem of the role of the mechanisms for the distribution and sources of atmospheric aerosols], 21.10–21R
See also **Bunakova, A. M.**, 21.10–11R
Iwagaki, Yuichi
Experimental studies on bottom friction near the transitional region under oscillatory wave motion (*with* **Chen, H.**), 21.12–791
Experimental study of wave pressure acting on an arch gate (2nd report), 21.12–793
On the bottom friction factors off five Japanese coasts (*with* **Kakinuma, T.**), 21.12–790
On the shoaling of finite amplitude waves, Pt. 2 (*with* **Sakai, T.**), 21.12–784
Scale effect in experiments of wave overtopping on seawalls (*with others*), 21.12–794
Studies on cnoidal waves, Pt. 5. On hyperbolic waves, Pt. 2 (*with* **Sakai, T.**), 21.12–785
Studies on cnoidal waves, Pt. 6, Limiting condition for application of cnoidal wave theory (*with* **Yamaguchi, M.**), 21.12–786
Studies on cnoidal waves, Pt. 7, Experiments on wave shoaling (*with* **Sakai, T.**), 21.12–787

Iwai, Akira, *see* **Hayakawa, Masashi**, 21.10–203
Iwai, Kunimoto, *see* **Isono, K.**, 21.5–583
Iwamiya, Masao, *see* **Akamatsu, H.**, 21.4–652
Izakov, M. N.
Ob uravneniiakh obshcheĭ tsirkuliatsii verkheĭ atmosfery [Equations of general circulation in the upper atmosphere] [and English transl.], 21.4–52
Izawa, Tatsuo
Relationship between observed winds and cloud velocities determined from pictures obtained by the ESSA-III, ESSA-V and ATS-1 satellites (*with* **Fujita, T.**), 21.7–583
See also **Fujita, T. T.**, 21.3–485
Izmailova, V. N., *see* **Nazarova, I. V.**, 21.11–401
Izquierdo, Miguel, *see* **Ballard, Harold N.**, 21.11–77

J

Jaccard, C.
Thermoelectric effect in ice, 21.6–808
Jacchia, Luigi G.
Atmospheric density variations during solar maximum and minimum, 21.6–201
Neutral atmosphere above 200 km, 21.5–315
Solar-wind dependence of the diurnal temperature variation in the thermosphere, 21.11–320
Jacka, F., *see* **Yuan, F. F. F.**, 21.8–303
Jacklyn, R. M.
Solar diurnal anistropy of cosmic rays (*with* **Duggal, S. P.** and **Pomerantz, M. A.**), 21.8–306
Jackson, C. I.
Summer climate of Tanquary Fiord, N.W.T., 21.11–58
Jackson, I. J.
Tropical rainfall variations over a small area, 21.5–617
Jackson, J. E.
Comparisons between topside and ground-based soundings, 21.10–168
Reduction of topside ionograms to electron-density profiles, 21.10–169
Jackson, M. R., *see* **Sood, S. K.**, 21.12–536
Jackson, Ray D., *see* **Idso, Sherwood B.**, 21.7–347
Jacobs, Clifford A.
Characteristics of national data buoy systems: their impact on data use and measurement of natural phenomena (*with* **Pandolfo, J. P.**), 21.8–822
Jacobs, H. S., *see* **Skidmore, E. L.**, 21.6–549
Jacobs, K. G.
Electron density profile of auroral layers as observed with ESRO rockets at Kiruna (*with* **Kist, R.** and **Rawer, K.**), 21.6–230
Jacobs, L.
200-years' story of Kew Observatory, 21.3–96
Jacobs, Woodrow C.
Seasonal apportionment of precipitation over the ocean, 21.2–259
Jacobson, A. L.
Upper-air lows over northwestern United States, 21.2–96
Jacquet, J.
Détermination du débit maximum de crue de sa probabilité de dépassement dans le cas d'information incomplète (*with* **Bernier, J.**), 21.6–626
Jaeger, John E.
AUTEC environmental instrumentation arrays, 21.2–689
Jaffe, L. D.
Principal scientific results from the Surveyor program (*with others*), 21.7–752
Jafri, S. A., *see* **Rahmatulla, M.**, 21.12–369
Jager, Gilbert, *see* **Cox, J. L.**, 21.6–339
Jail, Marcel
Observations météorologiques dans le Départment de l'Isère pour l'année 1968 [Meteorological observations in the Department of Isère for the year 1968] (*with* **Marchini, J.**), 21.9–371
Remarquable effet de lombarde: les chutes de neige de Paques 1969 en Haute-Maurienne [Remarkable effect of the lombarde: the Easter 1969 snow falls in the High Maurienne], 21.7–630
Jaki, Stanley L.
Paradox of Olbers' paradox: a case history of scientific thought, 21.8–710
James, D. G.
On the feasibility of measuring divergences on the scale of 10^4 sq km (*with others*), 21.1–104
James, K. W., *see* **Morre, D. J.**, 21.5–273
James, L. Douglas
Computers in flood control planning, 21.5–651
James, R. W.
Multipole analysis, Pt. 2, 21.5–730
Statistical inference and synoptics, 21.6–137

Jamieson, D. G.
- Quick-return subsurface flow (*with* **Amerman, C. R.**), 21.6–749

Janes, H. B.
- Experimental evaluation of several refractivity correctors for microwave slant–range data (*with others*), 21.5–358

Janeselli, R.
- Celle convettive e variazioni periodiche del gradiente del campo elettro-atmosferico [Convective cells and periodic variations of the vertical gradient of the electroatmospheric field], 21.4–245

Jani, K. G.
- Change in the ionospheric F2-layer at a place near the Sq-current focus during geomagnetic storms (*with* **Kotadia, K. M.**), 21.8–181

Janota, Paul
- On the relation between the planetary boundary layer and equatorial tropospheric winds, 21.6–294

Janssens, T. J.
- Description of mass motions and brightenings in a class 2b flare, Aug. 8, 1968 (*with* **White, K. P.**), 21.11–631
- Long-term observations of the Hx chromospheric network, 21.11–622
- Microwave pulse trains observed before and during a solar flare (*with* **White, K. P.**), 21.8–723
- *See also* **White, K. P., III,** 21.12–629

Janza, F. J., *see* **Kennedy, J. M.,** 21.1–151

Japan. Japanese National Committee [for Water for Peace Conference]
- General water conditions of Japan, 21.11–95R

Japan. Maritime Safety Agency, Tokyo
- Results of tidal observations for 1967 with tables of tidal harmonics constants, 21.10–102R

Japan. Meteorological Agency
- Accuracy of wind and temperature forecasts at the 300 MB level over the Far East–Pacific Area, 21.9–104
- Annual Report of Climatological Stations: Meteorological Observations, 1968, 21.10–101R
- Antarctic meteorological data obtained through the Japanese Antarctic Expedition, Vol. 7, 21.4–13
- Geophysical Review, 21.11–56
- Results of Marine Meteorological and Oceanographical Observations, 21.5–66

apan. Ministry of Health
- Basic data for water programs, 21.9–570

Japan. Natl. Comm. on Space Research, *see* **Internatl. Council of Scientific Unions. Comm. on Space Research, 11th Plenary Meeting, Tokyo, May 17–18, 1968,** 21.5–90

Japan. Science and Technology Agency
- Technology: present capabilities and future prospects, 21.9–561
- *See also* **Japan–United States Met. Rocket Project,** 21.1–145

Japan–United States Meteorological Rocket Project
- Data Report 1967, 21.1–145

Japanese Society of Biometeorology, 7th Meeting, Tokyo, Oct. 19, 1968
- Report, 21.10–52R

Jaquenod, Hermes, *see* **Langmann, F. Felix,** 21.8–387

Jarman, G. D., *see* **Kowsar, Ahang,** 21.11–323

Jarman, R. T.
- Visibility and length of chimney plumes (*with* **De Turville, C. M.**), 21.5–259

Jarocki, Walenty
- Relationship of air temperature to the occurrence of frazil ice and ice floe in rivers [Transl. from Polish], 21.2–633

Jarvis, E. C.
- Objective guidance in forecasting surface winds over land, 21.1–235
- Operational method for predicting the height of the planetary boundary layer in a stable atmosphere, 21.10–108
- Use of 6-layer primitive equation model prognoses to predict areas of organized middle cloud and associated precipitation (*with* **Kagawa, N. H.** and **MacNeil, C. F.**), 21.4–28

Jastrow, R., *see* **Charney, J.,** 21.5–29; **Halem, Milton,** 21.8–24

Jáuregui O., Ernesto
- Aspectos meteorológicos de la contaminación del aire en la ciudad de México [Meteorological aspects of air contamination in Mexico City], 21.5–260
- Clima del valle del Rio Colorado [Climate of the Valley of the Colorado River], 21.6–637

Javandel, Iraj
- Method of analyzing transient fluid flow in multilayered aquifers (*with* **Witherspoon, P. A.**), 21.4–559

Jaworski, Jerzy
- Zróżnicowanie przestrzenne średniego rocznego parowania terenowego w Polsce [Spatial variability of yearly

mean land evaporation in Poland], 21.2–243

Jayaram, M.
  Note on forecasting the direction of premonsoon thundersqualls at Begumpet Airport, 21.9–106

Jayaraman, S.
  Turbulence reported by low flying aircraft (*with* **Venkataraman, S.**), 21.7–475
  See also **Rai Sircar, N. C.**, 21.8–392; 21.12–479

Jean, A. Glenn
  On the detection of sudden ionospheric disturbances (*with* **Kropp, D. K.**), 21.2–74

Jeanjacquot, Alain, *see* **Expéditions Polaires Françaises, 1948**, 21.10–109R

Jeffers, William Q., *see* **Webbink, Ronald F.**, 21.7–739

Jeffery, P. M.
  Negative muons and the isotopic composition of the rare gases in the Earth's atmosphere (*with* **Hagan, P. J.**), 21.5–224

Jeffress, Charles H., *see* **Carsola, A. J.**, 21.2–766

Jeffreys, Harold
  [Discussion of] **J. M. Reiffenstein:** On the formation of the rings of Saturn, 21.12–611

Jelly, D. H.
  High-latitude ionosphere (*with* **Petrie, L. E.**), 21.7–191
  On the morphology of auroral absorption during substorms, 21.6–680

Jeltes, R.
  Sampling of nonpolar air contaminants on porapak porous polymer beads, 21.7–62

Jeng, R. I., *see* **Yevjevich, V.**, 21.5–745

Jeník, Jan
  Interpretation of direct solar irradiation in ecology (*with* **Rejmanek, M.**), 21.7–321

Jenkins, Carl F.
  Cost effectiveness sensitivity of national data buoy systems: an essay (*with others*), 21.8–821

Jenkins, D. G., *see* **Mather, J. D.**, 21.6–773

Jenkins, Edward B.
  Far-ultraviolet spectroscopy of Jupiter, 21.11–587
  Rocket spectra of Venus and Jupiter from 2000 to 3000 A (*with others*), 21.11–576

Jenkinson, A. F.
  Statistics of extremes, 21.10–418

Jennings, D. M., *see* **Fegan, D. J.**, 21.
534

Jennings, S. G.
  Diffusion coefficients of charged aero
particles (*with* **O'Connor, T. C**
21.12–476

Jennison, R. C.
  Ball lightning, 21.8–644
  Measurement of micrometeorite imp
fluxes (*with* **McDonnell, J. A. M**
21.12–613

Jensen, E.
  Wilson effect and the transparency of su
spot models (*with* **Brahde, R.** a
Ofstad, P.), 21.6–723

Jensen, Jens Peder
  Vejret og klimaet [Weather and climat
21.9–7

Jensen, Lloyd T.
  Water quality environment as related
industry, 21.4–402

Jensen, M. E.
  Water consumption by agricultural plan
21.7–529

Jenssen, Ditmar
  Accuracy of finite difference analogues
simple differential operations (*w*
Straede, J.), 21.5–162

Jenssen, M. J. D.
  International Symposium on Numeri
Weather Prediction, Tokyo, 1968, 21.
94

Jeppson, R. W., *see* **Bagley, Jay M.**, 21.
590

Jerusalem. Hebrew Univ.
  Applications of laser techniques to inves
gation of clouds and particles in t
atmosphere, 21.11–37

Jeske, H., *see* **Ghessing, D. T.**, 21.4–47

Jespersen, M.
  Comparison of auroral light emission a
electron density (*with others*), 21.11–5

Jessup, Edward A.
  Application of constant-volume balloo
for determining air divergence and tr
jectories, 21.1–143

Jimenez, J., *see* **Gall, Ruth**, 21.7–410

Jindal, S. R., *see* **Gupta, S. N.**, 21.9–584

Jitts, H. R.
  Data collected by Australian participan
during the May, 1968 sea trials
SCOR/UNESCO Working Group
on "Photosynthetic radiation in the sea
21.6–830

Jiusto, James E.
  Some principles of fog modification with hygroscopic nuclei, 21.5–195
  See also **Kocmond, W. C.**, 21.7–111
Joachim, Miroslav
  Prévision d'un cycle des indices Φ et Φ F2 [Forecasting a cycle of the indexes Φ and Φ F2] (*with* **Vladimirov, V.** and **Guillot, P.**), 21.8–182
Joachim, P., *see* **Davis, W. O.**, 21.3–269
Joham, H. E., *see* **Gipson, J. R.**, 21.6–427
Johannessen, O. M., *see* **Ingram, R. G.**, 21.7–825; **Keys, J.**, 21.4–787
Johler, J. Ralph
  Ground wave propagation in a normal and an ionized atmosphere, 21.3–694
Johns, B.
  Decay of internal wave modes in a multilayered system (*with* **Cross, M. J.**), 21.1–753
  Some consequences of an inertia of turbulence in a tidal estuary, 21.4–791
Johns Hopkins Univ., Baltimore. Chesapeake Bay Inst., *see* **Okubo, A.**, 21.4–728; **Boicourt, William**, 21.4–789
Johnson, A. I.
  Outline of geophysical logging methods and their uses in hydrologic studies, 21.10–726
  Physical and hydrologic properties of water-bearing deposits in subsiding areas in central California (*with* **Moston, R. P.** and **Morris, D. A.**), 21.10–433
Johnson, C. B., *see* **Mannering, J. V.**, 21.8–491
Johnson, C. Y.
  Ion and neutral composition of the ionosphere, 21.6–231
Johnson, D. A.
  Experimental investigation of charge separation due to the fracture of freezing water drops, 21.2–365
  Freezing and shattering of supercooled water drops (*with* **Hallett, J.**), 21.1–560
  Separation of charge due to the fracture of freezing water drops, 21.8–618
Johnson, David S.
  TIROS-I plus ten, 21.8–47
Johnson, Donald R.
  Available potential energy of storms, 21.11–221
  See also **Bullock, B. R.**, 21.1–535
Johnson, Francis S.
  Composition changes in the lower thermosphere (*with* **Gottlieb, B.**), 21.7–161
  Induced magnetosphere of Venus (*with* **Midgley, J. E.**), 21.9–502
  Origin of planetary atmospheres, 21.4–483
Johnson, Frank Gordon
  Infrared flux divergence calculations with newly constructed radiation tables, 21.7–336
  Investigation of spring fog and stratus at Wurtsmith AFB, Michigan, 21.8–361
  Snowshower activity in the upper Great Lakes, 21.5–628
Johnson, H. E.
  Production and loss of He^3 in the Earth's atmosphere (*with* **Axford, W. I.**), 21.1–279
Johnson, H. L.
  The infrared spectra of Jupiter and Saturn at 1.2–4.2 microns, 21.10–629
Johnson, J. D.
  Sea ice forecasting in McMurdo Sound and the Ross Sea, 21.4–613
Johnson, J. O., *see* **Mallory, E. C., Jr.**, 21.7–805
Johnson, Keith W.
  Preliminary study of the stratospheric warming of December 1967–January 1968, 21.3–350
  Proposed indices characterizing stratospheric circulation and temperature fields (*with* **Miller, A. J.** and **Gelman, M. E.**), 21.5–412
Johnson, L. W., *see* **McCaldin, R. O.**, 21.5–270
Johnson, M. E., *see* **Gierhart, G. D.**, 21.5–95
Johnson, Marc
  Altitude as an environmental factor, 21.2–323
Johnson, Martin L.
  Research on Sleepers River at Danville, Vermont, 21.12–697
Johnson, Neil L.
  Program description for the automatic graphical presentation of atmospheric temperature–pressure data on a SKEW T, LOG P DIAGRAM "SKEWT," 21.8–21
Johnson, Norman E.
  Transpirational drying of Douglas-fir (*with* **Zingg, J. G.**), 21.6–541
Johnson, P. L.
  Dynamics of carbon dioxide and productivity in an Arctic biosphere (*with* **Kelley, J. J., Jr.**), 21.12–217
Johnson, R. G.
  Satellite measurements on auroral particle

fluxes (*with* **Sharp, R. D.**), 21.10–512; 21.11–523

Johnson, R. H., *see* **Trowbridge, C. A.,** 21.1–487

Johnson, R. P.
Development of tropical storm Monica as seen from satellite photographs, 21.3–466

Johnson, Rodney Wendell
Lunar colony, 21.3–724

Johnson, S. G.
On smoothing techniques applied to upper atmosphere wind data, 21.10–342

Johnson, S. R.
Agricultural land price differentials and their relationship to potentially modifiable aspects of the climate (*with* **Haigh, Peter A.**), 21.12–573
Temperature modification and costs of electric power generation (*with* **McQuigg, J. D.** and **Rothrock, T. P.**), 21.5–470

Johnson, W. S.
High resolution radiosonde observations, 21.5–144

Johnson, Walter K.
Automated variable flow for pilot plants, 21.10–565

Johnson, Warren B., Jr.
Lidar observations of the lower troposphere during BOMEX (*with* **Uthe, E. E.**), 21.8–27
Lidar study of stack plumes (*with* **Uthe, E. E.**), 21.10–141

Johnson, Warren O., *see* **Federal–State Agricultural Weather Service, Lakeland, Fla.,** 21.2–1

Johnson, Wendell C.
Diurnal variation in growth rate of irrigated winter wheat, 21.6–654

Johnson, William E., *see* **Langseth, Marcus C., Jr.,** 21.9–494

Johnstone, A. D., *see* **Courtier, G. M.,** 21.10–504

Joint Working Party on the Scientific Aspects of Internatl. Ocean Research
Global ocean research, 21.5–785

Joki, E. G.
Satellite measurements of auroral ultraviolet and 3914-Å radiation (*with* **Evans, J. E.**), 21.11–517

Jokipii, J. R.
Long-wavelength turbulence and the heating of the solar wind (*with* **Davis, L., Jr.**), 21.7–371
Stochastic variations of cosmic rays in th solar system, 21.8–278

Jokl, E.
Effect of altitude upon 1968 Olympi Games running performances (*wit* **Jokl, P.**), 21.10–461

Jokl, P., *see* **Jokl, E.,** 21.10–461

Jolly, William C., *see* **Cooper, C. F.,** 21.4–32; 21.11–133

Jonas, P. R.
Cloud physics research in Czechoslovaki 21.5–597

Jonassen, Niels
Airborne measurements of radon 22 daughter ions in the atmosphere (*wit* **Wilkening, M. H.**), 21.12–325

Jones, A. Vallance
Auroral spectroscopy, 21.10–511
Spectroscopic morphology of aurora, 21.10–530
See also **Evans, W. F. J.,** 21.5–457

Jones, B. A., Jr., *see* **Rastogi, R. A.,** 21.9–649

Jones, D. E.
Search for a lunar wake at large distance from the Moon: Mariner-4 (*with others*), 21.2–437
See also **Ballif, J. R.,** 21.3–712; 21.10–650

Jones, Douglas M. A.
Effect of housing shape on the catch of recording gages, 21.3–35

Jones, H. L.
Water resources of Papua, and New Guinea, 21.9–562

Jones, J. E., *see* **Davies, K.,** 21.5–342

Jones, J. I. P.
New recording wind vane, 21.11–89

Jones, J. Nick
Effects of tillage, no tillage, and mulch on soil water and plant growth (*with* **Moody, J. R.** and **Lillard, J. H.**), 21.7–652

Jones, K. P.
Distribution of ozone at the Earth's surface, 21.3–320

Jones, L. M.
Falling sphere method for upper-air density, temperature and wind, 21.9–23
See also **Fischbach, F. F.,** 21.6–21

Jones, M. D.
Effects of southern temperatures on quality of mechanically harvested grapes (*with* **Benedict, R. H.** and **Fleming, J. H.**), 21.9–239

Jones, M. E.
Hurricane control, 21.12–383

Review of the literature on the structure of wind turbulence, with special regard to its effect on buildings, 21.4–235

Jones, Ordie R.
Determining specific yield of the Ogallala aquifer by the neutron method (*with* **Schneider, A. D.**), 21.10–729

Jones, Paul H., *see* **Hofmann, Walter**, 21.9–559

Jones, R. C., *see* **Dawson, G. A.**, 21.8–643

Jones, Robert F.
Clear air turbulence, 21.7–476

Jones, S. J.
Mechanical properties of single crystals of pure ice (*with* **Glen, J. W.**), 21.5–773

Jones, T. B.
Validity of the *f* cos *i* theorem for the absorption of very low frequency radiowaves in the ionosphere (*with* **Wand, I. C.**), 21.3–392
See also **Burgess, B.**, 21.8–168

Jones, Walter L.
Atmospheric internal gravity waves and tides, 21.12–356
Non-divergent oscillations in the solar atmosphere, 21.12–633
Transport of energy by internal waves, 21.5–373

Joplin, Sammie D.
The importance of environmental testing including experience with the Arcas–Robin system, 21.12–29

Jordan, Carole
Relative intensities of selected Si II multiplets in the spectrum of the Sun and Zeta, 21.2–504

Jordan, Kenneth L., Jr.
Multipath characteristics in a satellite aircraft link at 230 MHz, 21.12–73

Jordan, R., *see* **Stahl, W.**, 21.3–546

Jordan, Stuart D.
Temperature distribution in the solar chromosphere, 21.7–765

Jorgensen, Donald L., *see* **Glahn, Harry R.**, 21.11–129; **Korte, A. F.**, 21.5–609

Jørgensen, T. Stockflet
VLF and LF emissions at auroral latitudes, 21.10–543
VLF and LF emissions in auroral regions of the ionosphere, 21.10–544

Joshi, K. L.
Problems of desert agriculture in Punjab, Haryana and West Rajasthan, 21.11–463

Joshi, P. V., *see* **Kelkar, D. N.**, 21.12–687

Joss, J.
Untersuchungen zur quantitativen Bestimmung von Niederschlagsmengen Mittels Radar [Investigations of the quantitative determination of precipitation amounts by radar], 21.11–43

Jost, D., *see* **Georgii, H. W.**, 21.3–317, –348

Joyner, B. F.
Sampling apparatus to minimize aeration of water collected at shallow depths for the determination of dissolved gases, 21.10–686

Juday, Richard D.
Riometer measurements, solar proton intensities and radiation dose rates (*with* **Adams, G. W.**), 21.7–411

Juhász, J.
Soil temperature studies in Pótharaszt, 21.6–462

Julian, Lesley T.
Boulder's wind (*with* **Julian, P. R.**), 21.2–230

Julian, Paul R.
An application of rank-order statistics to the joint spatual and temporal variations of meteorological elements, 21.11–20
See also **Julian, L. T.**, 21.2–230

Juliano, David W.
Reaeration measurements in an estuary, 21.9–684

Jung, Eberhard
Messung von Tropfengrössenverteilungen verschiedener Regenfälle mit einem elektrodynamischen Regenspektrometer [Measurement of drop size distribution in various rainfalls with an electrodynamic raindrop spectrometer], 21.3–666

Junge, Christian E.
Studien zur Bestimmung des Sauregehaltes von Aerosolteilchen [Studies on determining acid content on aerosol particles] (*with* **Scheich, G.**), 21.5–261
See also **Seiler, W.**, 21.6–168; 21.12–223; **Fabian, Peter**, 21.12–287

Jungerius, P. D.
Soil evidence of postglacial tree line fluctuations in the Cypress Hills area, Alberta, Canada, 21.9–373

Junghans, Horst
Einfluss von Rundungen verschiedener Grösse auf die Mittelwerte von Temperatur, relativer, Feuchte, Luftdruck und Dampfdruck [Influence of rounding-off various-amounts factors on the mean

values of temperature, relative humidity, atmospheric and vapor pressure], 21.4–322
Sonnenscheindauer und Strahlungsempfang geneigter Ebenen [Sunshine duration and radiation reception by inclined planes], 21.3–63
Statistische Bearbeitung von Niederschlagsdaten mit logarithmischen Merkmalsteilungen [Statistical treatment of precipitation data using logarithmic graduations], 21.3–657
Der Terminfehler bei Lufttempeartur, relativer Luftfeuchte, Dampfdruck und Luftdruck [Observation-schedule error in daily observations of air temperature, relative humidity, vapor pressure, and barometric pressure], 21.7–15

Jungmann, H.
Passiver Hoehenwechsel als Kurmittel [Passive altitude change as a therapeutic aid], 21.8–548

Junod, A.
Contribution à la méthodologie granulométrique des aérosols amicroscopiques [Contribution to the granulometric method as applied to amicronic aerosols], 21.12–242

Jureko, Lucjan
Przyczyny zanikania jeziora Chełmżyńskiego w świetle bilansu jego zlewni [Causes of the Chełmżyńskie Lake decline considering its basin budget], 21.6–790

Jurica, G. M., *see* **Staley, D. O.**, 21.2–198

Jusick, A. T.
D-region electron concentration profile produced by the July 9, 1962 nuclear detonation (*with* **Furman, D. R.**), 21.8–183

Just, Dietrich
Daily and monthly Northern Hemisphere 10-millibar–synoptic weather maps of the year 1968, Pt. 1, Jan.–March (*with others*), 21.9–167R; Pt. 2, April–June, 21.9–168R
Daily and monthly Northern Hemisphere 30-millibar–synoptic weather maps of the year 1968, Pt. 1, Jan.–March, 21.9–169R

Justus, C. G.
Dissipation and diffusion by turbulence and irregular winds near 100 km, 21.3–413
Theory for the energy spectrum of shear-dependent turbulence, 21.5–385
See also **Woodrum, A.**, 21.3–631, –632

Jyzhikova, S. M.
Multiple channel converter of meteorological parameters into binary code (*with* **Zavadovskiĭ, V. M.**), 21.9–33

K

Kabanov, A. S.
Influence of spatial inhomogeneity of condensation nuclei concentration on cloud drop-size distribution (*with others*), 21.12–500
See also **Ivanova, E. T.**, 21.7–566

Kabanov, M. V.
Poliarizatsiia izlucheniia OKG rasseiannogo tumanami i dymami [Polarization of laser light scattered by particles of artificial fogs and smogs] (*with* **Savel'ev, B. A.** and **Samokhvalov, I. V.**) [and English transl.], 21.2–349

Kabanova, K. S.
Distribution of a hydrologic network in irrigated and drained areas, 21.12–658

Kachmar, E. G.
K voprosu ob opredelenii metilovykh efirov karbonovykh kislot gruppy C_6–C_{10} v vozdukhe [Determination of methyl ethers of carbonic acid of the C_6–C_{10} groups in the air] (*with* **Pinigina, I. A.**), 21.9–126

Kachurin, L. G.
Application of the stream theory for the calculation of the artificial convective cloud (*with* **Bekriaev, V. I.** and **Vorob'ov, B. M.**), 21.1–586
Electrification of crystallizing clouds (*with* **Bekriaev, V. I.**), 21.2–367

Kaczmarek, Zdisław
O metodach doboru zespołu zmiennych prognozujących [Methods of selection of a set of predictors], 21.6–138

Kadoya, Mutsumi, *see* **Oka, Taro**, 21.11–715

Käse, Herbert
Die komplexe meteorologische Betreuung der Forstwirtschaft auf dem Sektor Waldbrandverhütung [Varied meteorological advisory services in forestry management, with special reference to the forest-fire prevention sector], 21.10–120
Ein Vorshlag für eine Methode zur Bestimmung und Vorhersage der Waldrandgefährdung mit Hilfe komplexer Kennziffern [Proposal for a method for estimating and forecasting forest fire danger using multiple indices], 21.4–344

Kagan, B. A., *see* **Marchuk, G. I.**, 21.2–735; **Vager, B. G.**, 21.1–752; 21.4–770

Kagan, R. L.
- K voprosu o soglasovanii poleĭ geopotentsiala i vetra [The coordination of geopotential and wind fields], 21.2–221
- Ob interpoliatsii meteorologicheskikh elementov vo vremeni [Time-interpolation of meteorological elements] (*with* **Drozdovskaia, P. P.**), 21.10–22R

Kaganskiĭ, A. S.
- O vozmozhnosti vosstanovleniia otsutstvuiushchikh nabliudeniĭ [Possibility of reconstructing missing observational data] (*with* **Krivilo, P. F.**), 21.1–100
- O zakonakh raspredeleniia temperatury vozdukha i skorosti vetra nad okeanom [Laws of distribution of atmospheric temperature and wind velocity above the ocean] (*with* **Krivilo, P. F.**), 21.2–172
- *See also* **Beliaev, Iu. I.**, 21.1–401; **Filippov, V. V.**, 21.2–174

Kagawa, N. H., *see* **Jarvis, E. C.**, 21.4–28

Kahalas, S. L.
- On toroidal mode eigenfrequencies, 21.3–386
- *See also* **Knabe, W. E.**, 21.7–727

Kahan, Archie M.
- Progress in precipitation modification (*with* **Stinson, J. R.** and **Eddy, R. L.**), 21.1–2
- Weather modification: a progress report (*with* **Eddy, R. L.**), 21.8–126

Kahana, Yona
- Role of groundwater in the development of water resources, 21.8–790

Kahler, S. W.
- Comparison of energetic storm protons to halo protons, 21.7–412

Kai, K.
- Expanding arch structure of a solar radio outburst, 21.11–553
- Radio evidence of directive shockwave propagation in the solar corona, 21.8–724

Kaimal, J. C.
- Anisotropy of the fine structure (*with others*), 21.10–228
- Effect of vertical line averaging on the spectra of temperature and heat-flux, 21.2–171

Kaiser, C. B.
- Thermal emission of the F corona, 21.6–714

Kaiser, T. R.
- Diffusion of meteor trains in the geomagnetic field, 21.11–601
- Interplanetary dust cloud, 21.4–435

Kajiura, Kinjiro
- Survey of a tsunami accompanying the Tokachi-oki Earthquake of May 1968 (*with others*), 21.2–790

Kajosaari, Eero
- Finland, 21.11–95R

Kakinuma, Tadao
- Analysis of the non-linearity of coastal waves based on wave records (*with others*), 21.12–788
- On estimation of directions of waves off the Ogata coast based on wave spectra (*with* **Ishida, A.**), 21.12–789
- Studies on wave forecasting (2nd report): Estimation of shallow water waves off the Ogata Coast (*with* **Ishida, A.**), 21.12–781
- *See also* **Iwagaki, Yuichi**, 21.12–790

Kakioka, Japan. Magnetic Observatory
- Report [on] Geomagnetism, Kanoya, 1963, 21.10–104R
- Report [on] Geomagnetism, Memambetsu, 1963, 21.10–103R

Kalachev, A. V., *see* **Abal'ian, T. S.**, 21.3–667

Kalagian, Gary S., *see* **Carey, Roger B.**, 21.9–47

Kalazhokov, Kh. Kh.
- Issledovanie radiolokatsionnykh svoĭstv nekotorykh model'nykh oblakov [A study of the radar properties of some model clouds], 21.11–44
- K poluempiricheskoĭ teorii dvizheniia sistemy chastits grubodispersnykh aerozoleĭ v viazkoĭ srede [The semi-empirical theory of motion of a particle system of coarsely dispersed aerosols in a viscous medium), 21.11–161

Kalinin, A. M., *see* **Makkaveev, N. I.**, 21.3–743

Kalinin, G. P.
- O gidrologicheskikh osnovakh upravleniia rezhimom vod sushi [Hydrological principles of the control of land water regime], 21.12–683
- Spatial and temporal analysis of maximum runoff (*with* **Nikol'skaia, N. V.**), 21.6–755
- *See also* **Bykov, V. D.**, 21.4–512

Kalinin, N. F.
- Ob opyte meteorologicheskogo obespecheniia aviatsii v Privolzhskom UGMS [The experience of meteorological service to aviation in the Privolzhskoe Administration of the Hydrometeorological Service], 21.3–18

Kalinkov, M.
Possible method of predicting solar activity, 21.4–495
Kalinovskaia, G. P., *see* **Vertlib, A. B.**, 21.3–562
Kalinyak, Paul Peter, *see* **Danforth, W. L.**, 21.1–218
Kaliuzhnyĭ, D. N.
Opyt ozdorovleniia atmosfernogo vozdukha v gorodakh i selakh Ukrainskoĭ SSR [Experience in the improvement of the atmosphere in towns of the Ukrainian SSR] (*with others*) [and English transl.], 21.5–262
Kallistratova, M. A., *see* **Gracheva, M. E.**, 21.11–486, –487
Kalma, J. D.
Radiation climate of an irrigated orange plantation (*with* **Stanhill, G.**), 21.6–350
Kalmykova, R. G., *see* **Vylegzhanina, G. F.**, 21.2–398
Kalugin, S. K., *see* **Ostrovskiĭ, V. N.**, 21.4–567
Kalugina, T. P.
O statisticheskikh kharakteristikakh polia vetra v ekvatorial'noĭ zone i v srednikh shirotakh [Statistical characteristics of the wind field in the equatorial zone and in middle latitudes] (*with* **Kartashova, M. V.**), 21.6–493
Kalvaitis, A. N.
Test and evaluation of a spar-type oceanographic buoy, 21.8–834
Kam, William, *see* **Signor, D. C.**, 21.9–643
Kamal, Ahmed A.
Basic data programs for water resources United Arab Republic, 21.9–563
Kamal, Ismat
Prospects of desalination for solving water problems on the Makran coast, 21.11–761
Kamal, T. H.
Effect of the natural climate of the Sahara and controlled climate on the rectal temperature and cardiorespiratory activities of Friesian cattle and water buffaloes (*with* **Ibrahim, I. I.**), 21.11–469
Effects of the natural climate of the Sahara and controlled climate on thyroid gland activity in Friesian cattle and water buffaloes (*with* **Ibrahim, I. I.**), 21.11–470
Kamaldina, I. I.
K metodike opredeleniia vremen relaksatsii elektricheskogo polia grozovkh oblakov posle udara molnii [A method of determining the electric field relaxation time for storm clouds after a lightning stroke], 21.8–617
See also **Imianitov, I. M.**, 21.8–616
Kamalov, B. A.
Geograficheskie zakonomernosti raspredeleniia stoka na territorii gornoĭ chasty Sredneĭ Azii [Geographical regularities of runoff distribution in the territory of mountain areas of Central Asia], 21.5–647
Rezhim nakopleniia snega v basseine Syrdar'i [The regime of snow accumulation in the Syrdary basin], 21.11–399
Kambhu, M. L. Xujati
Flooding irrigation with submersible levees (*with* **Kanchanalak, B.**), 21.10–556
Some aspects on procurement of hydrologic data in Thailand (*with* **Kanchanalak, B.**), 21.9–571
Kamenkovich, V. M.
Ob odnoĭ modeli dlia opredeleniia temperatury poverkhnosti okeana [Model for determining surface temperature of the ocean] [and English transl.], 21.2–209
Kamide, Yohsuke
Microstructure of auroral-zone electrojet (*with* **Iijima, T.** and **Fukushima, N.**), 21.7–719
Kaminer, N. S.
Barometricheskii effekt neitronnoi komponenty kosmicheskikh luchei pri nalichii fona [Barometric effect of the cosmic ray neutron component in the presence of the background], 21.9–232
Vspyshka solnechnykh kosmicheskikh lucheĭ 28. I.1967 g. [The burst of cosmic rays on January 28, 1967] (*with* **Miroshnichenko, L. I.**) [and English transl.], 21.3–537
See also **Dorman, L. I.**, 21.3–535
Kaminski, H.
Kontinuierliche meteorologische Grossflächen-Beobachtung der Erde [Continuing meteorological observations of large areas of the Earth], 21.5–96
Eis und Schnee in Satellitenphotos [Ice and snow on satellite photographs], 21.12–74
Kaminuma, Katsutada
Auroral observation at Syowa Station (*with* **Hirawawa, T.**), 21.9–445
Kampa, Elizabeth M.
Underwater daylight measurements in the Sea of Cortez, 21.12–745

Kamra, A. K.
  Effect of wind on diurnal and seasonal variations of atmospheric electric field, 21.4–378
  Electrification in an Indian dust storm, 21.3–695
  Short term variations in atmospheric electric potential gradient, 21.4–379
Kamte, P. P., *see* **Dhar, O. N.,** 21.9–316; 21.11–430
Kamynin, A. F.
  O nekotorykh osobennostiakh rezhima urovneĭ vody Novosibirskogo vodokhranilishcha [Some peculiarities of the water level regime in the Novosibirsk Reservoir] (*with* **Kamynina, E. P.**), 21.2–610
Kamynina, E. P., *see* **Kamynin, A. F.,** 21.2–610
Kamyshanova, V. A.
  Sinopticheskie usloviia grozoobrazovaniia i chislo grozovykh razriadov [Synoptic conditions for thunderstorm formation and the number of lightning charges], 21.7–307
Kanaev, L. A., *see* **Emel'ianov, Iu. N.,** 21.11–406
Kanazawa, I., *see* Misaki, M., 21.9–431
Kanchanalak, Boonchob, *see* **Kambhu, M. L. Xujati,** 21.9–571; 21.10–556
Kane, Elisha Kent, *see* **Stanley, A.,** 21.2–682
Kane, H. S.
  Neutron probe for the determination of snow density and its use in Antarctica, 21.5–630
Kane, S. R.
  Observations of two components in energetic solar X-ray bursts, 21.11–662
  See also **Arnoldy, R. L.,** 21.2–132
Kaneda, Eisuke, *see* **Tsuruda, M.,** 21.2–374
Kaneda, Takayuki, *see* **Iwagaki, Yuichi,** 21.12–794
Kanevskii, M. B., *see* **Naumov, A. P.,** 21.10–607
Kangas, J.
  Some characteristics of auroral zone precipitations during a single long-lived balloon flight, 21.7–372
Kangedal, B., *see* **Sandström, A. E.,** 21.7–420
Kangieser, Paul C.
  Estimated return periods for short-duration precipitation in Arizona, 21.6–52
  See also **Idso, Sherwood B.,** 21.12–241
Kantor, A. J.
  Effect of range on apparent height and frequency of high-altitude radar precipitation echoes (*with* **Grantham, D. D.**), 21.3–86
  Strong wind and vertical wind shear above 30 km, 21.5–518
Kao, S. K.
  Characteristics of the large-scale dispersion of particles in Southern Hemisphere (*with* **Hill, W. R.**), 21.6–486
  Large-scale dispersion of clusters of particles in the atmosphere, Pt. 2, Stratosphere (*with* **Powell, D. C.**), 21.1–492
Kapitanova, T. P., *see* **Shakina, N. P.,** 21.2–224
Kapitsa, A. P.
  Fiziko-geograf, gliatsiolog, lavinoved (k shestidesiatiletiiu Georgiia Kazimirovicha Tushinskogo i k sorokaletiiu ego izyskatel'shoĭ deiatel'nosti) [A physical-geographer, glaciologist and snow-avalanche investigator (on the occasion of Georgiĭ Kazimirovich Tushinskiĭ's 60th birthday and 40th anniversary of his research activity)] (*with* **Riabchikov, A. M.** and **Saushkin, Yu. G.**), 21.9–150R
Kaplan, L. D.
  Carbon monoxide in the Martian atmosphere (*with* **Connes, J.** and **Connes, P.**), 21.10–615
Kaplan, Lewis D.
  Use of high-frequency infrared radiometry for remote atmospheric probing with high vertical resolution, 21.9–24
Kaplyuk, L. F.
  Methods for determining the moisture content of soils with moisture-retaining rubble [Transl. from Russian], 21.5–141
  Physical and water-physical properties of the soils of the Crimean Yaylas, 21.11–436
Kapoor, R. K.
  Ice-forming nuclei and their dominant source region (*with others*), 21.9–285
  See also **Shirvaikar, V. V.,** 21.1–498
Kapotova, N. I.
  Rezhim urovneĭ i zapasov gruntovykh vod v raĭonakh Severo-Zapada ETS [Regime of levels and amounts of groundwater in the northwestern ETS regions], 21.10–732
Kapovits, Albert
  Időjárási radar Budapesten [Weather radar at Budapest], 21.3–87

Kapustin, P. A.
Trekhkanal'nyĭ radiometr dlia izmereniia poliarizatsii kosmicheskogo radioizlucheniia na chastote 210 Mgts [Three-channel radiometer for measuring the polarization of cosmic radiation at the frequency 210 MHz] (*with others*) [and English transl.], 21.3–185
Kar, Songthara Om., *see* **Om Kar, Songthara**
Karabashev, G. S., *see* **Ozmidov, R. V.**, 21.9–709
Karaki, S., *see* **Ward, J. C.**, 21.11–739
Karamian, A. O., *see* **Isaakian, Ia. S.**, 21.6–428
Karapiperis, L. N.
Day-to-day variations of the atmospheric pressure in Athens, 21.2–217
On the influence of sunspots on thunderstorms in Athens, 21.5–424
On the variations of the direct and total solar radiation, luminosity of the sky and certain other meteorological elements, during the annular eclipse of the Sun on 20th May 1966, 21.9–413
See also **Anastassiades, M.**, 21.6–253
Karasev, I. F.
O tochnosti opredeleniia stoka po gidrometricheskim dannym [Accuracy of determining runoff from hydrometric data] (*with* **Chizhov, A. N.**), 21.4–518
Principles for distribution and prospects for development of a hydrologic network, 21.11–679
Karasik, G. Ia.
Podzemnoe pitanie rek Afriki [Underground alimentation of the rivers of Africa], 21.12–552
Vodnyĭ balans i vodnye resursy Afriki [Water balance and water resources of Africa], 21.4–514
Karbaum, Hans
Die Niederschlag alas Wasserhaushaltsgrösse [Precipitation as a water balance magnitude], 21.5–137
Kariagina, Z. V.
Rezul'taty nabliudeniĭ svecheniia nochnogo neba po programme MGSS [Results of the airglow observation on the IQSY program] (*with* **Mozhaeva, V. E.**), 21.6–389
Karimov, K. A.
Radiometeornye nabliudeniia vetrovykh kharakteristik nad Kirgizieĭ [Wind study by radio meteor observation], 21.6–511
Karjoto, —
Comparison of CIRA 1965 to sounding rocket upper atmosphere data in Indonesia (*with* **Sunjata, M. H.**), 21.6–57
Karklin, V. P.
Godovaia volna atmosfernogo davleniia na zemnom share [Annual wave of atmospheric pressure on the globe] (*with* **Casiukov, P. S.**), 21.3–580
See also **Marksimov, I. V.**, 21.10–242
Karmov, M. I.
Otsenka vliianiia izlucheniia v bokovykh lepestkakh na velichinu otrazhaemogo signala ot oblaka [Evaluation of the effect of radiation from side-lobes on the magnitude of the signal reflected from a cloud], 21.11–45
Karol', I. L.
Ispol'zovanie radioaktivnykh trasserov v issledovanii global'nykh atmosfernykh protsessov [Utilization of radioactive tracers in the study of global atmospheric processes], 21.11–245
Karoli, Alton R.
Continuation of experimental investigations of low-temperature radiation sources (*with* **Hickey, J. R.** and **Drummond, A. J.**), 21.8–235
Karoly, A., *see* **Alexander, G. N.**, 21.8–405, 406
Karpeev, G. A.
O diskriminantnom analize kak sposobe prognoza meteorologicheskikh polei [Discriminant analysis as a method of forecasting meteorological fields], 21.12–170
Ob odnom sposobe optimal'nogo analiza i prognoza ekstremal'nykh znachenii meteorologicheskikh polei [Method for the optimum analysis and prognosis of extreme values of meteorological fields], 21.12–137
Ob otnositel'noi oshibke kak mere uspeshnosti prognozov meteorologicheskikh plei [Relative error as a measure of success of forecasts of meteorological fields], 21.12–171
Karpov, O. N.
Rasprostranenie gamma-izlucheniia v verkhnei atmosfere [Propagation of gamma radiation in the upper atmosphere] (*with* **Strelkov, A. S.**), 21.8–279
Karpusha, V. E.
Rezul'taty eksperimental'nogo issledovaniia kompensatsionnogo datchika atmosfernogo davleniia [Results of experimental

studies of a compensation sensor of atmospheric pressure], 21.9–60

Kartashova, M. V., *see* **Kalugina, T. P.**, 21.6–493

Kartsivadze, A. I.
- Modification of hail processes, 21.7–120
- *See also* **Gabarashvili, T. G.**, 21.12–497

Karunin, A. B., *see* **Galin, M. B.**, 21.7–86

Kasahara, Akira
- Nonlinear mountain flow (*with* **Houghton, D. D.**), 21.6–528
- Thermal and dynamical effects of orography on the general circulation of the atmosphere (*with* **Washington, W. M.**), 21.7–281

Kasai, Toshiyuki, *see* **Magono, C.**, 21.4–271

Kasamura, Yukio
- Forecasting method for heavy rainfall in Ōita Prefecture, 21.10–71R

Kasatkin, A. M., *see* **Siachinov, V. I.**, 21.1–177

Kasatkina, O. I.
- Experimental investigation of light diffusion by cloud particles, Pt. 1, Simulation of water droplets; Pt. 2, Measurement of indicatrices of diffusion of light by water droplet models, 21.11–13R

Kaschak, George R.
- Long-range supersonic propagation of infra-sonic noise generated by missiles, 21.2–390

Kasemir, Heinz W.
- Charge distribution in the lower part of the thunderstorm, 21.2–358
- Lightning hazard to rockets during Launch 1, 21.12–586

Kasha, Michael A.
- The ionosphere and its interaction with satellites, 21.10–170

Kashprovskiĭ, V. E.
- O raschete polia na kv-trassakh bol'shoĭ protiazhennosti [Calculation of the field tension on long short-wave lines] (*with* **Liannoĭ, B. E.**), 21.7–737

Kasser, Peter
- Fluctuations of glaciers 1959–1965, 21.2–625
- Gletscherbeobachtungen in der Schweiz [Glacier observations in Switzerland], 21.1–757

Kassner, James L., Jr., *see* **Bolander, Richard W.**, 21.12–493; **Saxena, V. K.**, 21.6–110; **Schuster, B. G.**, 21.2–249

Kasten, Fritz
- Sichtweite-Änderung durch Feuchte-Quellung des Aerosols [Visibility range changes due to humidity swelling of aerosols, 21.5–675
- Visibility forecast in the phase of precondensation, 21.10–112

Kastner, S. O.
- Satellite shadows on Jupiter as probes of its upper atmosphere, 21.10–630

Kasturi Rangan, K.
- Balloon observations of cosmic X-rays in the energy range 20–200 kev (*with* **Bhavsar, P. D.** and **Nerurkar, N. W.**), 21.9–480

Katasev, L. A., *see* **Andreeva, L. A.**, 21.5–40; 21.12–39

Katayama, Akira, *see* **Arakawa, A.**, 21.6–304

Katayama, Kunie
- Biometeorological study in seasonal variations of stroke mortality (*with* **Momiyama, M.**), 21.6–655; 21.9–388, –389; 21.7–430

Kathren, Ronald L., *see* **Denham, D. H.**, 21.1–175

Katin, Iu. E.
- O printsipe analogichnosti v meteorologii [Principle of analogy in meteorology], 21.12–165

Katkova, T. F.
- Nekotorye osobennosti sutochnogo i godovogo khoda osnovnykh parametrov raspredeleniia skorosti vetra i koeffitsienta korreliatsii temperatury i skorosti vetra v otdel'nykh raĭnoakh territorii SSSR [Some peculiarities of the diurnal and annual variation of basic wind profile parameters, the temperature correlation coefficient and the wind velocity on individual territories of the U.S.S.R.], 21.11–335

Kato, H.
- Annual variations of monthly normal fields of basic meteorological elements, 21.7–669
- Characteristics of monthly mean zonal index and 500-mb height anomaly field, 21.11–246

Kato, Shoji
- The solar differential rotation and "Rossby-type" waves (*with* **Nakagawa, Y.**), 21.8–753

Kato, Susumu
- Consideration on the tidal wave transmission through the ionized atmosphere (*with* **Matsushita, S.**), 21.8–184
- Hydromagnetic coupling of acoustic gravity waves with the ionized atmosphere

(*with* **Reddy, C. A.** and **Matsushita, S.**), 21.5–349

Kato, T., *see* **Fujimoto, M.,** 21.11–563

Kats, Avram L'vovich

Stratospheric and mesospheric circulation, 21.10–23

Kats, M. E., *see* **Iukhimuk, A. K.,** 21.4–489

Katsuragi, Y., *see* **Miyake, Y.,** 21.12–346

Katsurayama, Kosuke

Accumulation de la radioactivité dans les rizières [Accumulation of radioactivity in rice fields], 21.6–257

Tritium en hydrologie [Tritum in hydrology], 21.6–750

Kattawar, George W.

Infrared cloud radiance (*with* **Plass, G. N.**), 21.3–509; 21.7–712

Katterfel'd, G. N.

O sushchestvovanii vody na Lune [Existence of water on the Moon] (*with* **Frolov, P. M.**), 21.4–474

Katz, Amrom H.

Let aircraft make Earth–resource surveys, 21.4–391

Katz, Eli Joel

Further study of a front in the Sargasso Sea, 21.3–798

Katz, I., *see* **Hardy, K. R.,** 21.1–105; 21.6–42

Katz, Ludwig

Measurement of the Earth's magnetic field (*with* **Rothwell, P. L.**), 21.2–351

Katz, William E.

State of the art in electrodialysis, 1967, 21.9–690

Kaufeld, L.

Häufigkeiten und Kombinationen von Bodenund Höhenwetterlagen El Salvadors [Frequency and combinations of surface and high altitude weather conditions in El Salvador], 21.3–445

Luftdruck und Wetter in El Salvador [Atmospheric pressure and weather in El Salvador], 21.1–605

Die Wetterlagen El Salvadors [Weather situation in El Salvador], 21.2–15

Kaufman, Aaron

Ra^{228} in high-latitude Southern Hemisphere waters, 21.4–674

Kaufman, J. W., *see* **Endlich, R. M.,** 21.3–616; **Camp, Dennis W.,** 21.10–69; **Fichtl, George H.,** 21.8–330

Kaufman, M. I.

^{234}U/^{238}U disequilibrium as an aid to hydrologic study of the Floridan aquifer (*with* **Rydell, H. S.** and **Osmond, J. K.**), 21.10–728

Kaufmann, Pierre

Note on lower ionosphere equivalent height diurnal variation (*with* **De Souza, R. M.** and **Mendes, A. M.**), 21.5–350

On the possible emission of polarized microwave radiation from the solar hemispheres (*with* **Matsuura, O. T.** and **Dos Santos, P. M.**), 21.2–427

Some relationships between solar X-ray bursts and SPA's produced on VLF propagation in the lower ionosphere (*with* **Paes de Barros, M. H.**), 21.6–406

Unpolarized impulsive solar bursts observed at 7 GHz, 21.8–725

Kaufmann, Richard L.

Explorer-12 magnetopause observations (*with* **Konradi, A.**), 21.3–387

Kavadas, A., *see* **Sofko, G. J.,** 21.11–524

Kawakami, Kiyoshi

Joint preliminary hydrographic survey of the Malacca Strait, 21.11–62R

Kawano, Minoru

Interaction between radioactive ions and condensation nuclei, 21.12–326

Measurements of the attachment coefficients of small ions and radioactive ions to condensation nuclei (*with* **Ikebe, Y.** and **Shimo, M.**), 21.9–434

Kawasaki, Shinkichi

Time variations in the soft component of cosmic rays, 21.7–413

Kawatani, T.

Turbulence and wind speed characteristics within a model canopy flow field (*with* **Meroney, R. N.**), 21.12–357

See also **Sadeh, W. Z.,** 21.10–318

Kawecki, Arnold

Czasy życia opadów przelotnych i rozmiary kolumn opadowych na podstawie pomiarów radiolokacyjnych w Legionowie [Life times and diameters of showers measured by radar in Legionowo] *with* **Moszkowicz, S.** and **Ordakowski, H.**), 21.9–318

Kayane, Isamu

Characteristics of summer wind in southern Kanto judged from wind-shaped gingko tress, 21.8–337

Kaylor, Robert, *see* **Faller, A. J.,** 21.5–531; 21.7–473

Kazakova, L. L., *see* **Boĭko, A. P.,** 21.3–429

Kazankova, Z. P.

Vzaimodeĭstvie chastits aerozoleĭ doobrazuiushchikh veshchestv i pereokhlazhdennykh kapel' vody [Interaction of aerosol particles of ice-forming substances with supercooled water droplets], (*with* **Medaliev, Kh. Kh.**), 21.11–368

Kazantsev, A. N.
Napriazhennost' polia korotkikh radiovoln, izluchaemykh iskusstvennym sputnikom Zemli v neodnorodnoĭ ionosfere [Field intensity of short radio waves emitted by an artificial Earth satellite in an inhomogeneous ionosphere] (*with* **Lukin, D. S.**), 21.3–154
O pogloshchenii radiovoln v ionosfere Venery [Absorption of radio waves in the ionosphere of Venus] (*with* **Danilin, V. A.**), 21.12–602, –294

Kazantsev, E. I., *see* **Osipova, T. I.**, 21.5–748

Kazariants, E. S.
O sil'nykh livniakh v Uzbekistane vesnoĭ 1966–1967 gg. [Heavy rains in Uzbekistan in spring 1966–1967] (*with* **Nazarova, T. L.** and **Iakunina, Z. M.**), 21.9–319

Kazimirovskiĭ, E. S.
Solnechnaia aktivnost' i dinamika verkhneĭ atmosfery: obzor [Solar activity and dynamics of the upper atmosphere: review] (*with* **Kiun, G. I.**), 21.3–351
See also **Zakharov, V. N.**, 21.12–313

Kaznacheeva, V. D.
Ob informativnosti vvedeniia tipizatsii sinopticheskikh protsessov dlia prognoza temperatury v Tashkente [Information on the introduction of typification of synoptic processes for the forecasting of temperature in Tashkent], 21.1–239
Statisticheskie kharakteristiki nekotorykh meteorologicheskikh poleĭ pri odnorodnykh sinopticheskikh protsessakh nad Sredneĭ Azieĭ [Statistical characteristics of several meteorological fields in homogeneous synoptic processes over Central Asia] (*with* **Voĭnova, T. A.**), 21.2–94

Keating, Gerald M.
Changes in the lower exosphere since solar minimum, 21.6–250

Kebuladze, T. V., *see* **Dorman, L. I.**, 21.3–535

Keegan, Thomas J.
Results and plans of the AFCRL, University of Hawaii 1 WW Tropical Meteorological Research Program, 21.7–76

Keeler, Charles M.
Growth of bonds and the increase of mechanical strength in a dry seasonal snowpack, 21.5–631
Some physical properties of Alpine snow, 21.7–627

Keeney, Joe
Observations on the microwave emission from colliding charged water drops, 21.7–722

Keetch, John J.
Drought index for forest fire control, 21.7–617

Keevallik, S. Kh.
Rasprostranenie izlucheniia v rasseivaiushchei sred s neraynomernym pogloshcheniem [Radiation transfer in a scattering medium with inhomogeneous absorption] (*with* **Laisk, A. Kh.**), 21.7–337

Kegulikhes, V. V., *see* **Toropova, T. P.**, 21.6–675

Keighton, Walter B., *see* **McCarren, Edward F.**, 21.10–746

Keily, John (ed.), *see* **Lusignan, Bruce**, 21.12–20

Kekkar, D. N.
Rapid method for estimating radium and radon in water (*with* **Joshi, P. V.**), 21.12–687

Kel'chevskaia, L. S.
Ucet v agroklimaticheskikh issledovaniiakh pogloshcheniia pochvoi osenne-zimnikh osadkov [Allowance for the soil absorption of fall–winter precipitations in agroclimatic studies], 21.7–653

Kelĭmenova, N. G.
Sopostavlenie nabliudeniĭ ul'tranizkochastotnykh izlucheniĭ v Sogre i Loparskoĭ [Comparison of observations of ultra low-frequency radiations in Sogra and Loparskaya] (*with* **Tsirs, G. P.**) [and English transl.], 21.2–384

Kelkar, R. R., *see* **Godbole, R. V.**, 21.4–127, –128

Keller, Joseph B.
Rossby waves in the presence of random currents (*with* **Veronis, G.**), 21.1–736

Kelley, John J., Jr.
Analysis of carbon dioxide in the Arctic atmosphere near Barrow, Alaska, 1961 to 1967, 21.12–218
Carbon dioxide in the surface waters of the North Atlantic Ocean and the Barents and Kara Seas, 21.10–804
See also **Johnson, P. L.**, 21.12–217

Kelley, Neil D.
Digital telemetry system for weather modification research, 21.12–179

Kelley, Ralph E.
Mass spectrometric study of low-field mobility, diffusion, and reactions of ions in gases, 21.11–191

Kellogg, E. M., *see* **Gorenstein, P.**, 21.2–164

Kellogg, W. K., *see* **Rich, Peter H.**, 21.9–675

Kelly, T. E.
Minimum and maximum water-level recording devices, 21.10–690

Kelov, K., *see* **Ovezgel'dyev, O.**, 21.12–307, –308

Kelway, P. S.
Short-term rainfall analysis (*with* **Herbert, S. I.**), 21.3–658

Kempf, H.
Erfahrungen mit dem Winterdienst nach Montreal [Winter service experiences on the way to Montreal] (*with* **Zabel, M.**), 21.10–787

Kendall, Robert L.
Ecological history of the Lake Victoria Basin, 21.6–648

Keneshea, T. J.
Diurnal model of the E-region (*with* **Narcisi, R. S.** and **Swider, W., Jr.**), 21.7–192

Keng, Edward Y. H.
Gaseous impurities and nuclear condensation on airborne sodium chloride particle, 21.12–243

Kennedy, A. S., *see* **Roberts, J. J.**, 21.9–196

Kennedy, Bruce W.
Thin film temperature sensor, 21.3–188

Kennedy, J. M.
Electromagnetic sensor correlation study (*with* **Janza, F. J.**), 21.1–151

Kennedy, John F., *see* **Alam, A. M. Z.**, 12.5–768

Kennedy, R. J.
Relationship between lag time and the physical characteristics of drainage basins in Southern Ontario (*with* **Watt, W. E.**), 21.9–598; 21.7–647

Kennedy, W. R.
Beta radioactivity in environmental air and precipitation at Los Alamos, New Mexico for 1967 (*with* **Aeby, J. W.**), 21.3–404

Kenney, Dale E.
Environmental data report, Gulf of Thailand, Dec. 1967–Feb. 1968, 21.3–772

Kenyon, Kern E.
Stokes transport, 21.8–841

Kerker, Milton
Scattering of light and other electromagnetic radiation, 21.8–572

Kerley, M. J., *see* **Wildman, P. J. L.**, 21.3–327

Kernahan, John A., *see* **McConkey, John W.**, 21.11–533

Kerr, J. D., *see* **Hamon, B. V.**, 21.2–757

Kerr, J. R.
Atmospheric distribution of short laser pulses (*with* **Titterton, P. J.** and **Brown, C. M.**), 21.6–673

Kerrigan, T. C., *see* **Rosinski, J.**, 21.1–567

Kerr-Smith, Michael William
Future of weather forecasting, 21.10–62

Kertesz-Sáringer, M.
On the atmospheric benzo(a)pyrene pollution in Budapest (*with* **Mórik, J.** and **Morlin, A.**), 21.5–263

Kes', A. S.
Osnovnye etapy razvitiia Aral'skogo moria [Basic developmental states of the Aral Sea], 21.9–682

Kesarev, V. V.
Motive forces in the development of the Earth and planets [Transl. from Russian], 21.4–472

Kesava Murthy, M. J., *see* **Krishna Rao, T. V.**, 21.11–197

Kesel, Philip Garland
Experiments with atmospheric primitive equation models, 21.1–221

Kesik, Andrzej, *see* **Wilgat, T.**, 21.5–764

Kessler, Albrecht
Globalbilanzen von Klimaelementen: ein Beitrag zur allgemeinen Klimatologie der Erde [World balance of climatic elements: a contribution to the general climatology of the Earth], 21.9–366

Kessler, Erwin
On the distribution and continuity of water substance in atmospheric circulations, 21.6–532

Kester, Dana R.
Sodium, magnesium and calcium sulfate ion-pairs in seawater at 25°C (*with* **Pytkowicz, R. M.**), 21.9–699

Kestner, A. P.
Pribor dlia registratsii aerodinamicheskogo davleniia [An instrument for recording aerodynamic pressure] [and English transl.], 21.6–83

Ketcham, W. M.
Direct measurements of the ice-water interfacial temperature for two crystallographic orientations during the freezing of pure water (*with* **Hobbs, P. V.**), 21.12–541
See also **Hobbs, P. V.**, 21.6–807
Keys, J.
Oceanography of Disraeli Fiord northern Ellesmere Island (*with* **Johannessen, O. M.** and **Long, A.**), 21.4–787
Khaĭrullin, Kamil' Sheikhovich
Ottepeli na territorii SSSR [Thaws in the U.S.S.R.], 21.7–635
See also **Adamenko, V. N.**, 21.7–316, –687
Khalevitskiĭ, Z. Z.
Redkostnyĭ sluchaĭ bory na Srednem Urale [Rare case of bora over the Central Urals], 21.10–341
Khalil, A. S. A.
On the variability of sounding balloons ascensional rate and their suitable free lifts, 21.7–38
Khaminov, N. A.
O genezise 14-mesiachnogo tsikla v atmosfere Zemli [Genesis of the 14-month cycle in the Earth's atmosphere], 21.5–665
Khanevskaia, I. V.
Izmenchivost' temperatury v stratosfere severnogo polushariia zimoĭ [Temperature changes in the stratosphere of the Northern Hemisphere in winter], 21.9–247
Osnovnye fiziko-statisticheskie parametry temperatury, kharakterizuiushchie tsirkuliatsiiu v zimneĭ stratosfere Svernogo polushariia [Basic physico-statistical temperature parameters characterizing the circulation of the winter stratosphere over the Northern Hemisphere], 21.6–295
Khanna, M. L.
Design data for heating air by means of heat exchanger with reservoir, under free convection conditions, for utilization of solar energy, 21.6–351
Khantadze, A. G.
O dispersii magnitogidrodinamicheskikh voln v ionosfere [Dispersion of magnetohydrodynamical waves in the ionosphere], 21.11–192
Kharchenko, K. I.
Isparenie s razlichnykh sel'skokhoziaĭstvennykh kul'tur v raione Sal'skikh stepeĭ [Evaporation from different agricultural crops in the region of the Sal'skiĭ Steppe], 21.7–530
Kharchilava, F. T.
Obil'nye osadki v Azerbaĭdzhane [Heavy precipitations in Azerbaidzhan], 21.10–391
Khare, B. N., *see* **Eberstein, K. J.**, 21.8–734
Khare, S. P.
Energy spectrum of the secondary electrons and the fluorescent efficiency of electrons in the 3914-Å band, 21.8–280
Kharitonov, A. V., *see* **Makarova, E. A.**, 21.2–505
Kharitonov, G. G.
Snezhnyĭ pokrov v raĭone snegolavinnoĭ stantsii Naugarzan kak faktor lavinoobrazovaniia [Snow cover in the region of the snow avalanche station Naugarzan as a factor of avalanche formation], 21.11–411
Kharitonov, V. P., *see* **Surazhskiĭ, D. Ia.**, 21.3–194
Kharitonova, G. A., *see* **Ibraimov, N. M.**, 21.5–676; **Teifel', V. G.**, 21.10–633
Kharitonova, S. S.
Zapylennost' vozdukha vo vremia pyl'nykh bur' na poluostrove Mangyshlak [Dust content of air during dust storms in the Mangyshlak Peninsula], 21.3–620
Khavkina, N. V., *see* **Neunylov, B. A.**, 21.10–552
Khazanov, V. S.
Izmerenie fotosinteticheski aktivnoĭ radiatsii v lesu s pomoshch'iu liuksmetra Measurement of the photosynthetically active radiation in a forest with an illumination-meter], 21.1–458
Kheĭfets, Ia. M.
Skhema vos'miurovennogo ob"ektivnogo analiza polia geopotentaiala [Scheme for 8-level objective analysis of the geopotential field], 21.6–133
Khershkovich, E.
Vliianie na meteorologichnite usloviia vŭrkhu razvitieto, formiraneto na dobivite i razpukvaneto na pamuka [Influence of the meteorological conditions on the development, the forming of crops and opening of the cotten], 21.3–128
Khershkovich, K.
O metode prognozirovaniia summ temperatur za vegetatsionnyĭ period, predlozhennom F. F. Davitaia [Method of forecasting temperature sums in a vegetative period, suggested by F. F.

Davitaia] (*with* **Giurova, M.**), 21.3–258

Khimach, M. A.
Investigation of concentration of ice-forming nuclei in the atmosphere, 21.12–515

Khimitsa, V. A.
Gidrologicheskaia struktura vod Adenskogo zaliva [Hydrographic structure of the Gulf of Aden] [and English transl.], 21.4–304

Khizhniakova, I. P., *see* **Khrulev, V. V.**, 21.3–393

Khlopov, V. V.
Izmenenie koeffitsienta vertikal'nogo turbulent nogo obmena s glubinoĭ i vo vremeni dlia nekotorykh raĭonov Severnoĭ Atlantiki [Variation of the coefficient of vertical turbulent exchange with depth and time for several regions of the North Atlantic], 21.9–710

Khmaladze, G. N.
Stok vody i vzveshennykh nanosov rek Kolkhidskoĭ nizmennosti [River flow and suspended sediments in the Colchis depressions], 21.1–797

Khmelevtsov, S. S.
Fluktuatsii intensivnosti lazernogo lucha pri rasprostranenii v turbulentnoi atmosfere [Intensity fluctuations of a laser beam propagating in a turbulent atmosphere] (*with* **Tsvyk, R. Sh.**), 21.12–467
See also **Zuev, V. E.**, 21.1–178; **S"edin, V. Ia.**, 21.10–576

Khocholava, G. M.
K voprosu o polozhitel'nykh vozmushcheniiakh v sloe F2 [The problem of positive disturbances in the F2-layer] (*with* **Gachechiladze, R. G.**), 21.11–193
O fluktuatsiiakh spokoinoi ionosfery na srednikh shirotakh [Fluctuations of quiescent ionosphere in middle latitudes], 21.12–302

Khodakova, V. P.
K voprosu metodiki kompleksnoĭ obrabotki temperatury i vlazhnosti vozdukha [Methods for the complex processing of temperature and humidity data], 21.5–471
Ob uchete klimaticheskikh faktorov pri ekspluatatsii polimernykh materialov na otkrytom vozdukhe [Allowance for climatic factors in the exploitation of polymer materials in the open air], 21.4–345
See also **Lebedev, A. N.**, 21.4–346

Khokhlov, G. P., *see* **Bogorodskii, V. V.**, 21.12–720

Khokhlov, M. Z.
Elektrostaticheskie analizatory s simmetrichnymi uglovymi kharakterisitkami dlia issledovaniia solnechnogo vetra [Electrostatic analyzers with symmetrical angle characteristics for studying solar winds] (*with* **Remizov, A. P.**) [and English transl.], 21.4–152
Ob opredelenii temperatury solnechnogo vetra pri anizotropnoĭ funktsii raspredeleniia [Determination of the solar wind temperature with an anisotropic distribution function] (*with* **Zastenker, G. N.**), 21.8–281

Khorguani, V. G., *see* **Giharev, A. S.**, 21.12–191; **Sarkisov, S. L.**, 21.11–373

Khorosheva, Ol'ga Vanifat'evna
Prostranstvenno-vremennoe raspredelenie poliarnykh siianiĭ [Spatial-temporal propagation of auroras], 21.2–375
Sviaz' vysokoshirotnykh geomagnitnykh vozmushcheniĭ s potokami elektronov na granitse vneshnego radiatsionnogo poiasa [The relationship between high-latitude geomagnetic disturbances and electron streams at the boundary of the outer radiation belt] (*with* **Darchieva, L. A.** and **Lopatina, G. B.**), 21.7–373
Vysotnaia asimmetriia mgnovennoĭ zony siianiĭ [Altitudinal assymetry of the auroral instant zone] (*with* **Emel'ianenko, S. N.**), 21.11–542

Khoroshilov, A. F.
K teorii formirovaniia voln v izluchaiushcheĭ atmosfere orograficheskimi neodnorodnostiami podstilaiushcheĭ poverkhnosti [The theory of wave formation in the emitting atmosphere by orographic dissimilarities of the underlying surface], 21.5–538

Khotsianov, L. K.
O neobkhodimosti sovershenstvovaniia sanitarnogo nadzora i povysheniia urovnia inzhenernoĭ kompetentsii v dele uluchsheniia vozdushnoĭ sredy [The need of improving the sanitary surveillance and of upgrading engineering competence in the amelioration of the air environment] (*with* **Livchak, I. F.**) [and English transl.], 21.1–298

Khrgian, A. Kh.
Dynamique de l'ozone atmosphérique [Dynamics of atmospheric ozone], 21.6–212

Noveĭshie issledovaniia po atmosfernomu ozonu, 2–7 sentiabria 1968 g., g. Monte-Karlo [Recent studies on atmospheric ozone, Sept. 2–7, 1968, Monte Carlo] [and English transl.], 21.3–321

Problemy tsirkuliatsii ozona v zemnoĭ atmosfere [Problems of ozone circulation in the Earth's atmosphere] (*with others*), 21.1–326

O vrednykh dlia cheloveka kontsentratsiiakh ozona v nizhneĭ stratosfere [The probability of ozone concentrations harmful for the man in the lower stratosphere], 21.3–364

Khristoforov, G. N., *see* **Efimov, V. V.**, 21.9–739

Khristov, Peniu I.

Vŭrkhu rezhima na temperaturnite inversii v Stanke Dimitrov i Pernishko pole [A method of the height profiles for determining and studying the regime of the temperature inversions and its application in investigating of the inversions in Stanke Dimitrov and the Pernik Plain], 21.2–195

Khrol, V. P.

O prichine mnogoletnikh izmeneniĭ v rasprostranenii l'dov Severnoĭ Atlantiki [Causes of long-period variations in the distribution of ice in the North Atlantic], 21.9–668

Khrulev, V. V.

Dopolnitel'nye zamechaniia k metodike izmereniia lineĭnoĭ poliarizatsii kosmicheskogo radioizlucheniia [Additional corrections to the method of measuring linear polarization of cosmic radiation] [and English transl.], 21.3–186

Izmerenie pogloshcheniia radiovoln v atmosfere na volne 31.9 cm [Measurements of radio wave absorption in the atmosphere at 31.9 cm wavelength] (*with* **Khizhniakova, I. P.**) [and English transl.], 21.3–393

K voprosu ob izmerenii lineĭnoĭ poliarizatsii raspredelennogo kosmicheskogo radioizlucheniia [Measurements of the linear polarization of background radiation], 21.8–592

Khrustselevskaia, G. V., *see* **Dorman, L. I.**, 21.12–428

Khunakasem, Vachi, *see* **Eriksson, E.**, 21.4–554

Khundzhua, G. G., *see* **Shelkonikov, N. K.**, 21.4–183

Khusid, S. B., *see* **Voĭt, F. Ia.**, 21.10–348, –377

Khvalenskiĭ, Iu. A.

Veroiatnostnyĭ prognoz vremeni sokhraneniia znaka anomaliĭ temperatury vozdukha [Probability time forecast of conservation of an air temperature anomaly sign], 21.3–259

Khvostova, R. N.

Ispytanie adaptivnoĭ sistemy dlia korreliatsionnogo prognoza pogody [Testing an adaptive system for correlation of weather forecasting], 21.1–211

Kibardin, R. E.

Prognozirovanie urozhaia ozimoĭ pshenitsy [Forecasting of winter wheat yield], 21.3–292

Kibel', I. A.

Uchet vzaimodeĭstviia pogranichnogo sloia i svobodnoĭ atmosfery v prognosticheskikh zadachakh mezometeorologii [Consideration of the interaction of the boundary layer and the free atmosphere in mesometeorological forecasting] [and English transl.], 21.2–307

Kibiński, Jacek M.

Możliwość pomiaru temperatury atmosfery metodą rezonansu akustycznego [Acoustic resonance as a possible method of measurement of air temperature], 21.3–65

Kibler, David F.

Kinematic cascade as a hydrologic model (*with* **Woolhiser, D. A.**), 21.11–678

Kicyło, Krzysztof

Rozprzestrzenianie się pasywnych zanieczyszczeń przemysłowych z kominów przy uwzględnieniu ruchów pionowych strugi [Diffusion of passive air pollution from chimneys with vertical movements of stream taken into account], 21.7–145

Kidd, Harold S., *see* **Williams, Robert**, 21.9–573

Kidson, J. W.

Observational studies of the general circulation of the Tropics: long term mean values (*with* **Vincent, D. G.** and **Newell, R. E.**), 21.1–383

See also **Newell, Reginald E.**, 21.10–235

Kieburtz, Richard B.

Comments on the possibility for determining detailed atmospheric structure from transhorizon radio propagation measurements, 21.9–26

Kieffer, H. H.
Reflectance spectrometer/environmental chamber for frosts, 21.8–320
Kieffer, Hugh
Interpretation of the Martian polar cap spectra, 21.5–689
Spectral reflectance of CO_2–H_2O frosts, 21.5–690
Kiel Universität. Institut für Meereskunde
Jahresbericht für das Jahr 1968 [Annual Report 1968], 21.1–714
Kiepenheuer, K. O.
Observational aspects of flare and surge theories, 21.2–484
See also **Interntl. Ast. Union,** 21.4–494
Kift, F.
H.f. oblique sounding measurements over a 6700 km temperature-latitude path (*with others*), 21.8–185
Kiianovskiĭ, M. P.
Sviaz' mezhdu znacheniiami foF2 na stantsiiakh vysokikh shirot v zimniĭ sezon [Connection between the foF2 values on stations in high latitudes in winter season] (*with* **Iudovich, L. A.**), 21.10–171
Kikhter, Ia. I.
Solnechnaia aktivnost' i grozovaia deiatel'nost' [Solar activity and thunderstorm activity] (*with* **Kolokolov, V. P.** and **Kleĭmenova, E. P.**), 21.7–302
Kikkawa, H.
On the characteristics of floods in an estuary (*with* **Shi-Igai, H.**), 21.10–714
Kikuchi, Katsuhiro
On the role of air bubbles in the electrification of melting ice, 21.9–665
See also **Magono, C.,** 21.4–271
Kikuchi, R.
Secular change of winter precipitation in Tohoku District, Japan, 21.8–401
Kikuchi, S.
Wave height of swells and relative location of typhoon in the neighbourhood of Kyūshū, 21.9–743
Kikuchi, Yukio
Numerical simulation of the blocking process, 21.5–425
Kikuchihara, H.
The theory of return period on one-dimensional domain and its calculation, 21.7–668
Kilasoniia, A. N., *see* **Svanidze, G. G.,** 21.2–613; **Svanidze, G. G.,** 21.12–676
Kilen, T. C.
Measurement of drought resistance in cor
(*with* **Andrew, R. H.**), 21.8–416
Killick, C. M.
Improved conductivity cell for the con
tinuous measurement of sulfur dioxi
in the atmosphere, 21.10–91
Kilpatrick, E. L.
Scaled-model measurements on a nested
tandem array of four rhombic antenna
(*with* **Cottony, H. V.**), 21.11–546
Kim, C. H., *see* **Tasai, F.,** 21.2–779
Kim, H. C.
Potential and wave height expressions f
multipoles moving under free surfac
21.2–648
Kim, J. S., *see* **Graham, D. A.,** 21.11–494
Ichikawa, T., 21.11–515
Kimmett, F. G.
UHF propagation measurements from el
vated to buried antennas (*with* **Haus**
L. G. and **McQuate, P. L.**), 21.10–56
See also **Hause, L. G.,** 21.10–566
Kimpara, Atsushi
Electromagnetic radiation from lightnin
discharges, 21.9–456
Kimura, Gozo, *see* **Yamada, Hikoji,** 21.11
787
Kimura, Hiroshi, *see* **Nakamura, Junj**
21.8–194
Kindle, E. C.
Navy Weather Research Facility Progra
for the development of a functional dis
play and presentation system, 21.9–32
King, G. A. M.
Seasonal changes in thermospheric compo
sition, 21.10–138
King, George Willard
On the numerical prediction of hurrican
trajectories with vertically average
winds, 21.11–111
King, H. A., *see* **Cavecche, E. H.,** 21.11–69
King, J. W.
A review of the large-scale structure o
the ionospheric of F-layer, 21.10–172
King, Jean I. F.
Towards an optimal inversion method fo
remote atmospheric sensing, 21.6–67
King, Palmer
Legal aspects of weather modificatio
21.3–300
King, R. J.
Electromagnetic wave propagation over
constant impedance plane, 21.1–666
King, Robert U., *see* **Voegeli, Paul T.**
Sr., 21.12–696

Kingham, H. H.
Surface temperature patterns in Christchurch at night, 21.7–434
King-Hele, D. G.
Air density at heights between 130 and 160 km, from analysis of the orbit of 1968–59B (*with* **Walker, D. M. C.**), 21.3–312
Air density at heights of 140–180 km, from analysis of the orbit of 1968–59B (*with* **Walker, D. M. C.**), 21.3–313
Air density at heights near 190 km in 1966–1967, from the orbit of Secor-6 (*with* **Hingston, J**), 21.1–272
Revised profiles of air density at heights of 130–180 km from the orbits of 1968–59A and B (*with* **Walker, D. M. C.**), 21.8–132
Kinney, P., *see* **Williams, P. M.**, 21.4–672
Kinoshita, Katsuhiro, *see* **Tsurumi, Sakuro**, 21.9–433
Kinosita, T.
Analysis of snow melt floods (*with* **Aoki, S.** and **Ishizuka, K.**), 21.8–461
Kinsey, J. H.
Observations of the solar proton event of Aug. 28, 1966 (*with* **McDonald, F. B.**), 21.2–147
Kinsman, Blair
Historical notes on the original Beaufort scale, 21.5–28
Who put the wind speeds in Admiral Beaufort's force scale?, 21.3–44
Kinsman, David J. J.
Co-precipitation of cations with $CaCO_3$–IV (*with* **Holland, H. D.**), 21.3–785
Kirby, M. J.
Infiltration, throughflow, and overland flow, 21.1–771
Kirby, William
On the random occurrence of major floods, 21.6–627
Kirchner, Siegfried
Verbesserung der Windauswertgenauigkeit mit Hilfe eines neuen Gerätes [New device for improving the accuracy of wind evaluation], 21.1–185
Kiriak, V.
On planning and operating a hydrometeorological network for the study and evaluation of floods, 21.10–715
Kirilicheva, K. V.
Zavisimost' urozhaia iarovoĭ pshenitsy ot yesennikh zapasov vlagi v pochve [Dependence of spring wheat harvest on spring reserves of soil moisture], 21.9–356
Kirilin, A. I., *see* **Sambikin, M. M.**, 21.4–334
Kiriliuk, M. I.
Vodnyi balans vodosborov gornykh rek raiona Zakarpatskoi stokovoi stantsii za otdel'nye gody [Water balance of mountain river catchments of the Transcarpathian runoff station for individual years], 21.12–694
Kirillov, A. A.
Sezonnyĭ khod ledovitosti i vozmozhnost' ego prognozirovaniia [Seasonal variations of the ice cover and the possibility of their forecasting] (*with* **Spichkin, V. A.**), 21.2–631
Kirillova, T. V.
Al'bedo vodokhranilishch [The albedo of reservoirs], 21.2–121
Kiriukhin, B. V.
O vozmozhnosti ispol'zovaniia poverkhnostnoaktivnykh veshchestv v tseliakh vozdeĭstviia na kovektivnye oblaka [The possibility of using surface active substances for influencing upon convective clouds] (*with* **Morachevskiĭ, V. G.**), 21.5–206
See also **Morachevkskiĭ, V. G.**, 21.6–613
Kirkham, Don, *see* **Warrick, A. W.**, 21.4–573
Kirks, R. A.
Theoretical investigation of convective patterns in the lee of the Colorado Rockies, 21.8–339
Kirschner, Burton H.
A manmade disaster, 21.10–114
Kirschner, H. J.
Zur Darstellung gemessener Eulerscher Korrelationsfunktionen in analytischer Form [The representation of observed Eulerian correlation functions in analytical forms], 21.4–193
Kirsh, A. A.
Diffusional method for the determination of the size of condensation nuclei (*with* **Stechkina, I. B.**), 21.12–516
Kirsta, B. T.
Isparenie s poverkhnosti neoroshaemykh zemel' Turkmenii [Evaporation from the surface of non-irrigated lands in Turkmenia], 21.7–531
Kirwan, A. D., Jr.
Formulation of constitutive equations for large-scale turbulent mixing, 21.6–487
Kiselev, O. N.
Eksperimental'nye issledovaniia medlennykh variatsiĭ amplitudy i fazy 10-santimetrovykh radiovoln na prizemnykh trassakh [Experimental investigation of

slow amplitude and phase variations of 10 cm radio waves on traces near the Earth] (*with others*) [and English transl.], 21.3–394
Kish, Alex J.
Clemson University and South Carolina Agricultural Experimental Stations 1968 climatological data, 21.2–291
Clemson University and South Carolina Agricultural Experiment Stations 1969 climatological data, 21.10–442
1969 climatological report of the South Carolina Agricultural Weather Service and 1969 South Carolina crop summary, 21.10–441
South Carolina soil temperatures, February–July 1969, 21.7–455
Summary of 1969–1970 South Carolina chilling hours (*with* **Ferree, R. J.** and **Purvis, J. C.**), 21.10–45
Kisiel, Chester C.
Time series analysis of hydrologic data, 21.4–509
Kisilenko, A. A.
Otsenka tochnosti izmereniia letnikh osadkov po ploshchadi gornogo basseĭna v Karpatakh [Evaluating the accuracy of summer precipitation measurement by area in the mountain basin in the Carpathians], 21.5–138
Veroiatnost' odnovremennogo vypradeniia osadkov v otdel'nom punkte i na zadannoĭ ploshchadi gornogo basseĭna [The probability of simultaneous falling of precipitation in a separate point and on a given area of a mountain basin], 21.6–602
Kisin, I. M.
Gidrologicheskaia i meteorologicheskaia sluzhby Kuby [Hydrological and Meteorological Service of Cuba] (*with* **Leont'ev, N. F.**), 21.3–19
Kislov, B. V., *see* **Dolov, M. A.**, 21.9–327
Kiss, V., *see* **Schöbesch, O.**, 21.10–468
Kist, R., *see* **Jacobs, K. G.**, 21.6–230
Kitaĭgorodskiĭ, S. A.
Melkomasshtabnoe vzaimodeĭstvie atmosfery i okeans [Small-scale interactions between ocean and atmosphere], 21.7–464
Kitamura, Kazuo
Report of the Hecateus Expedition-II in the Okhotsk Sea, 1967, Pt. 1, 21.3–776
Kitamura, T.
Observation of a new X-ray source (*with others*), 21.10–592
Kitano, Kiyomitsu
A note on the thermal structure of the Eastern Bering Sea, 21.11–330
Kitrosskiĭ, N. A., *see* **Dmitriev, M. T.**, 21.3–48
Kiun, G. I., *see* **Kazimirovskii, E. S.**, 21.3–351
Klaponski, C. E., *see* **Diduch, O. J.**, 21.4–191
Kłapowa, Maria
Wpływ temperatury powietrza na temperaturę gruntu w obszarze górnej granicy lasu w Tatrach [Effect of air temperature on ground temperature at the upper tree line in the Tatras], 21.5–487
Klausing, R. L., *see* **Lofgren, B. E.**, 21.10–434
Klebaner, L. B., *see* **Girskaia, E. I.**, 21.4–162
Kleczek, J.
Radio emission of spotgroups (*with* **Olmr, J.** and **Krüger, A.**), 21.4–448
Splintering loop prominences, 21.12–634
Kleĭmenova, E. P., *see* **Likhter, Ia. I.**, 21.7–302
Kleimenova, Natalia
Mise en évidence d'une relation entre l'émission de choeur de l'aube et les précipitations d'électrons d'énergie comprise entre 15 et 150 keV [Demonstration of a relationship between down chorus (vlf) emissions and precipitation of electrons with energies between 15 and 150 keV] (*with others*), 21.9–457
Klein, Perry I.
Propagation factors in radio–interferometer navigation satellite systems, 21.12–75
Klein, William H.
Computer forecasts of maximum and minimum surface temperatures (*with* **Lewis, F.** and **Casely, G. P.**), 21.7–92
Computer forecasts of maximum and minimum temperatures (*with* **Lewis, F.**), 21.12–143
Computer's role in weather forecasting, 21.7–78
Forecast research program of the Techniques Development Laboratory, 21.11–108
See also **Korte, A. F.**, 21.5–609
Kleinman, Michael T.
Radionuclide concentrations in surface air (*with* **Volchok, H. L.**), 21.3–108
Kleinschmidt, E.
Feld der potentiellen Vorticity während

einer Zyklonenentwicklung [The field of potential vorticity during the development of a cyclone] (*with* **Peter, G. M.**), 21.3–463

Klemm, Fritz

Über die Frage des Beobachtungsortes des Baseler Wettermanuskriptes von 1399–1406 [The question of the observation site of the Basel Weather Manuscript of 1399–1406], 21.1–138

Witterungschronik des Barfüsserklosters Thann im Oberelsass von 1182–1700: Ein Beitrag zur Witterungsgeshcichte des Oberrheingebiets [Weather chronicle of the Franciscan Monastery of Thann in Upper Alsace Lorraine, 1182–1700: Contribution to the history of meteorology of the Upper Rhine area], 21.10–49

Klemsdal, Tormod

Glacial–meteorological study of Grasubreen, Jotunheimen, 21.11–744

Klepikova, N. V.

Nekotorye voprosy teorii osazhdeniia chastits aerozolia iz potoka, Chast' vtoraia [Some questions in the theory of aerosol particles precipitation from flows, Pt. 1] (with **Levin, L. M.** and **Sedunov, Iu. S.**), 21.3–335

Kleshchenko, A. D.

Utochnenie metodiki rascheta vlagozapasov na posevakh propashnykh kul'tur [Development of a more accurate method for calculating the water reserves on seeds of ploughed cultures], 21.8–489

Zavisimost'summarnogo ispareniia propashnykh kul'tur ot agrometeorologicheskikh uslovii [Dependence of total evaporation from ploughed crops upon agrometeorological conditions], 21.9–279

Zavisimost'summarnogo ispareniia s posevov propashnykh kul'tur ot agrometeorologicheskikh usloviĭ [Dependence of the total evaporation from fields under tilled crops upon agrometeorological conditions], 21.5–560

Klevantsova, V. A.

Issledovanie modernizirovannykh pirgeliometrov Ongstrema [A study of modernized Angstrom pyroheliometers] (*with* **Pokrovskaia, I. A.** and **Ianishevskii, Iu. D.**), 21.8–55

O vliianii okolosolnechnoĭ radiatsii na pokazaniia pirgeliometrov s raznymi dlinami trubok [Influence of the Sun's radiation on readings of pyrheliometers with various lengths of tubes] (*with* **Pokrovskaia, I. A.**), 21.1–169

Otsenka vliianiia temperatury na tochnost' pirgeliometricheskikh izmerenii [An evaluation of the effect of temperature on the accuracy of pyroheliometric measurements], 21.8–56

Kliatskin, V. I.

O funktsional'nom opisanii kharakteristik ploskoĭ svetovoĭ volny, rasprostraniaiushcheĭsia v srede so sluchaĭnymi neodnorodnostiami pokazatelia prelomleniia [Functional description of the characteristics of a plane light wave propagating in a medium with random inhomogeneities of the refractive index], 21.7–215

Klimov, N. N.

Dinamicheskaia model' oblasti F ionosfery, vkliuchaiuschchaia temperaturnye izmeneniia [A dynamic model of the ionosphere F-region, including temperature variations] (*with others*), 21.8–186

See also **Krinberg, I. A.**, 21.5–351

Klimova, V. V.

Kratkosrochnye prognozy urovneĭ vody r. Pechory v period navigatsii [Short-range forecasts of the Pechora River water level during the navigation period], 21.2–543

Klimovich, V. M.

Propuskanie solnechnoĭ radiatsii oblakami nad o. Dikson [Cloud transmission of solar radiation over Dikson], 21.12–424

Kline, James C.

Analysis of surface atmospheric electric potential gradient observations, April–October 1968 (*with* **Frisby, E. M.** and **Barr, W. C.**), 21.8–604

Klinger, Jürgen

Conductibilité thermique de la glace [Thermal conductivity of ice (*with* **Neumaïer, K.**), 21.8–803

Klingo, V. V., *see* **Borisenko, M. M.**, 21.4–223; **Zavaina, M. V.**, 21.5–25

Kliore, Arvydas

Mariners-6 and -7: radio occultation measurements of the atmosphere of Mars (*with others*), 21.10–616

Some remarks on meteorological measurements with occultation satellites, 21.6–22

Structure of the atmosphere of Venus derived from Mariner-V S-band measurements (*with others*), 21.9–503

Summary of "Symposium on the Moon and Planets," Kiev, U.S.S.R., Oct. 15–22, 1968, 21.9–485

Kliuchnikova, L. A.
Raschet profilia bol'shikh skorosteĭ vetra v nizhnem 100-metrovom sloe atmosfery po nazemnym dannym [Calculation of high wind velocity profiles in the lower 100-m layer from ground] (*with* **Chestnaia, I. I.**), 21.6–10

Kliukin, N. K.
K probleme avtomitizatsii sbora, obrabotki, khraneniia i rasprostraneniia informatsii o gidrometeorologicheskom rezhime [Automation of collection, processing, storage, and distribution of information on hydrological regime], 21.4–305
On data processing mechanization for hydrometeorological regime study, 21.9–337

Kliukvin, L. N., *see* **Vulis, I. L.**, 21.3–251

Klobuchar, J. A., *see* **Mendillo, M.**, 21.8–191

Klostermeyer, J.
Interaction between neutral gas and ionization in the F-region during the passage of atmospheric gravity waves, 21.9–172

Klug, W.
Diffusion in the atmospheric surface layer: comparison of similarity theory with observations, 21.1–368

Klute, A., *see* **Hanks, R. J.**, 21.6–752

Kmito, A. A.
Information properties of scanning infrared equipment of weather satellites (*with* **Stepkin, V. S.**), 21.11–14R

Knabe, W. E.
Generation of gravity–acoustic waves by nuclear detonations (*with* **Kahalas, S. L.**), 21.7–727

Knapp, W. W.
Satellite study of the ice in Antarctic coastal waters, 21.4–622

Knauer, A.
Über Beziehungen zwischen Luftverunreinigung und ausgewählten meteorologischen Messgrössen [Relationships between air pollution and selected meteorological parameters], 21.6–175

Knauss, John A.
Environmental problems and basic research, 21.3–768
Transport of the Gulf Stream, 21.12–8R

Knebel, Harley J., *see* **Dietz, R. S.**, 21.4–653

Kneipe, Theo J., *see* **Howells, Gwyneth Parry**, 21.10–756

Knibb, Robert R.
Weather data radio telemetry system (*with* **Kohl, F. V.**), 21.3–173

Kniffen, D. A., *see* **Fichtel, C. E.**, 21.5–696

Knight, Charles A.
Falling behavior of hailstones (*with* **Knight, N. C.**), 21.11–417
Hailstone embryos (*with* **Knight, N. C.**), 21.11–418
Lobe structures of hailstones (*with* **Knight, N. C.**), 21.11–419
Small particle detection and identification by crystal growth, 21.6–109

Knight, Ewen
Design of a satellite instrument for measurement of the millimeter characteristics of atmospheric ozone, 21.11–170

Knight, Nancy C., *see* **Knight, Charles A.**, 21.11–417, –418, –419

Knight, P.
Influence of the ground near transmitting and receiving aerials on the strength of medium-frequency sky waves (*with* **Thoday, R. D. C.**), 21.8–704

Knight, R. J., *see* **Pearson, J. E.**, 21.3–641

Knightning, E.
Prostranstvennaia zadacha chislennogo prognoza [Spatial problems of numerical prediction], 21.8–95

Knollenberg, Robert G.
Optical array, 21.6–87

Knotkova-Čermáková, Dagmar
Die Bedeutung der Klimafaktoren vom Standpunkt der atmosphärischen Korrosion von Metallen [Significance of climatic factors from the standpoint of atmospheric corrosion of metals], 21.6–656

Knowlton, Dennis, *see* **Vali, Gabor**, 21.10–90

Knox, F., *see* **Edwards, P. J.**, 21.10–163

Knox, J. L.
Use of numerical probability factors in public forecasts for the prediction of precipitation occurrence, 21.7–97

Knudsen, William C.
Estimate of radiogenic He^4 and Ar^{40} concentration in the Cytherean atmosphere (*with* **Anderson, A. D.**), 21.10–606

Knull, James R.
Note on the sources of excess alkalinity in anoxic waters (*with* **Richards, F. A.**), 21.1–733

Knutsson, Gert
Tracers for groundwater investigation, 21.4–572

Knysh, V. V., *see* **Sarkisian, A. S.**, 21.4–721

Kobatake, Shigeki, *see* **Ishihara, Yasuo**, 21.11–425, –718

Kobayashi, Daiji
Snowmelt–runoff at Moshiri (*with* **Naruse, R.** and **Ôura, H.**), 21.9–341
See also **Kobayashi, S.**, 21.2–232

Kobayashi, Shun'ichi, *see* **Ôura, H.**, 21.2–232

Kobayasi, Takao, *see* **Inaba, H.**, 21.5–258

Koblents, Ia. P.
Usloviia poiavleniia zelenogo lucha v Antarktike [Conditions for the appearance of the green ray in Antarctica], 21.11–490

Kobzistyĭ P. I., *see* **Babichenko, V. N.**, 21.7–639; 21.10–254

Koch, Neil C.
A graphic presentation of stream gain or loss as an aid in understanding streamflow characteristics, 21.12–700

Kochenova, N. A.
Vystonoe raspredelenie pogloshcheniia kosmicheskogo radioizlucheniia [Height distribution of cosmic radiation absorption] (*with* **Fligel' M. D.**), 21.11–194

Kochiashvili, B. M.
Minimal'nyĭ stok rek kolkhidskoĭ nizmennosti [Minimum river flow in the Colchis lowlands] (*with* **Turkadze, N. N.**), 21.11–723

Kochina, N. N.
Nekotorye resheniia neodnorodnogo uravneniia diffuzii [Some solutions of a non-homogeneous diffusion equation] [and English transl.], 21.5–364

Kochubeĭ, S. G.
Vliianie ekspozitsii basseĭnov na maksimal'nyĭ stok rek Ukrainskikh Karpat [Effect of basin exposures on the maximum river runoff in the Ukrainian Carpathions] (*with* **Maksimov, V. A.** and **Bychkova, T. N.**), 21.4–526

Kocmond, Warren C.
Dissipation of natural fog in the atmosphere, 21.5–196
Laboratory experiments with seeding agents other than NaCl, 21.5–197
Warm fog suppression with giant hygroscopic nuclei (*with* **Pilié, R. J.** and **Jiusto, J. E.**), 21.7–111

Kodaikanal, India. Observatory
Bulletin, No. 169. Sept. 19, 1968, 21.11–195
Report for the year ending Dec. 31, 1969, 21.8–711

Kodama, Mashiro, *see* **Ishida, Yoshio**, 21.8–305

Kodrau, O. D.
Atmosfernye osadki i tsirkuliatsiia nad Iuzhnoĭ Azieĭ [Atmospheric precipitation and circulation over Southern Asia], 21.5–608
Kharakteristika uraganov na Kube [The characteristics of hurricanes over Cuba], 21.4–109

Köck, I., *see* **Hess, B.**, 21.5–579

Koeckelenbergh, A.
Quelques relations entre sursauts radioélectriques solaires sur ondes décimétriques et caractères morphologiques de éruptions chromosphériques associées [Some associations between radio electric solar bursts on decimetric waves and morphological characteristics of associated chromospheric eruptions], 21.2–428

Koenig, L. R.
Numerical experiments pertaining to warm-fog suppression, 21.7–112
See also **Aroesty, J.**, 21.1–558

Koenig, L. Randall
Origin of ice crystals in the atmosphere, 21.5–584

Koerber, B. W., *see* **Lloyd, D. T.**, 21.11–104

Koerner, R. M.
Some observations on superimposition of ice on the Devon Island Ice Cap, N. W. T., Canada, 21.12–722

Kofsky, I. L., *see* **Trowbridge, C. A.**, 21.1–487

Kogan, F. N.
K voprosu o zavisimosti urozhaia iachmenia ot pogodnykh usloviĭ v razlichnykh prirodnoklimaticheskikh zonakh Evropeĭskoi territorii SSSR (ETS) [Relationship between barley yield and weather conditions in different natural and climatic zones of the European U.S.S.R.], 21.2–324
Opyt primeneniia dispersionnogo analiza v agrometeorologicheskikh issledovaniiakh [Experience of using the dispersion analysis in agrometeorological investigations], 21.7–654

Kogan-Beletskiĭ, G. I., *see* **Bobyleva, I. M.**, 21.3–586

Kohl, Douglas A.
Delineation of the clear-air limits of cumulus cloud circulation by weak electric field profiles, 21.12–528
500-kHz sferics range detector, 21.6–102

Kohl, Francis V.
Remote readout panel for a digital precipitation gage, 21.6–92
See also **Knibb, R. R.,** 21.3–173
Kohl, Gerhard
Der qualitative Nachweis von Schichten koxmischer Staubpartikeln in der unteren Thermosphäre mit hilfe der dämmerungsoptischen Methode und das Auftreten Leuchtender Nachtwolken [Qualitative demonstration of cosmic dust particle layers in the lower thermosphere, using the optical twilight method and the occurrence of noctilucent clouds], 21.12–279
Kohl, H.
Interactions between movements of the ionized and neutral atmosphere at F-region heights, 21.6–232
Kohler, J., *see* **Christie, A. D.,** 21.7–707
Kohlsche, Kurt
Einige Betrachtungen über die Bedeutung der absoluten kinetischen Energie der Atmosphäre mit Angabe von Zahlenwerten für die Nordhalbkugel [Some considerations on the significance of the absolute atmospheric kinetic energy with quantitative data for the Northern Hemisphere], 21.6–269
Kohn, Robert E.
Linear programming model for air pollution control: a pilot study of the St. Louis airshed, 21.8–139
Kohoutek, L.
Atmospheric heights of telescopic meteors, 21.9–520
See also **Grygar, J.,** 21.9–518
Kojima, Hiroshi, *see* **Sekikawa, Toshio,** 21.8–647
Kojima, Kenji
Report of pit-wall observations of snow cover in Sapporo, 1967–1968 (*with others*), 21.11–88R
Report of snow cover observations, Sapporo, 1965–1966 and 1966–1967 (*with others*), 21.3–36
Kokhanovich, M. M.
Possibility of interpreting the data of a sedimentation analysis (*with* **Morachevskiĭ, V. G.**), 12.10–24R
Kokin, G. A.
Mesure de la pression et de la température avec une fusée Météorologique de sondage [Pressure and temperature measurements with a meteorological sounding rocket] (*with* **Perov, S. P.**), 21.3–49
Neravnovesnost' atmosfery i granitsy primenimosti uravneniia gidrostatiki [Non-equilibrium of the atmosphere and limits to the hydrostatic equation applicability], 21.5–313
See also **Bulanova, L. K.,** 21.12–88; **Ivanova, I. N.,** 21.6–458
Korourov, V. D., *see* **Zakharov, V. N.,** 21.12–313
Kokubun, S., *see* **Hayashi, K.,** 21.2–382
Kokurin, Iu. L.
Radioastronomicheskie issledovaniia parametrov krupnomasshtabnykh ionosfernykh neodnorodnosteĭ [Radioastronomical investigations of parameters of large-scale ionospheric irregularities] (*with others*), 21.11–196
Kolbig, Joachim
Einige Bemerkungen zu reliefbedingten Besonderheiten des Windfeldes bis 300 m über Grund [Comments on special characteristics of the wind field up to 300 m due to surface relief], 21.6–501
Untersuchungen der regionalen Unterschiede im Auftreten von Nebelfrost [Investigations of regional differences in the occurrence of rime] (*with* **Beckert, T.**), 21.5–588
Kolenbrander, G. J.
Calculation of parameters for the evaluation of the leaching of salts under field conditions, illustrated by nitrate, 21.2–400
Kolesnikova, V. N.
O spektrakh mikrometeorologicheskikh, sinopticheskikh i klimaticheskikh kolebaniĭ meteorologicheskikh poleĭ [The spectra of micrometeorological, synoptic and climatic variations of meteorological elements] (*with* **Monin, A. S.**), 21.2–298
Kolesov, A. K.
Diffuznoe otrazhenie i propuskanie sveta planetnoi atmosferoi pri trekhchlennoi indikatrise rasseianiia [Diffuse reflection and transmission of light by a planetary atmosphere according to the three-term scattering indicatrix] (*with* **Smoktii, O. I.**), 21.12–592
Koleva, St.
Niakoi rezultati ot prouchvaniiata vŭrkhu podvizhnostta i izparenieto na vodata ot pochvata [Some results of the investigations on the mobility and evaporation of water from soil] (*with* **Tatarova-Krŭsteva, V.**), 21.10–362
Kolezhuk, V. T., *see* **Tkachenko, A. V.,** 21.10–380

Kolker, Myer
Space geodesy altimetry study (*with* **Weiss, E.**), 21.2–22

Kollman, Peter A., *see* **Allen, Leland C.**, 21.10–694

Kolmakov, I. B., *see* **Shifrin, K. S.**, 21.8–147

Kolokolov, V. P.
O kharakteristikakh global'nogo raspredeleniia grozovoi deiatel'nosti [Global characteristics of thunderstorm activity], 21.8–233
Sviaz' mezhdu chislom ochagov atmosperikov i chislom grozovykh razriadov [The quantitative relationship between foci of atmospherics and thunderstorm discharges], 21.7–301
See also **Imianitov, I. M.**, 21.9–42R; **Likhter, Ia. I.**, 21.7–302

Kolomeets, E. V.
Periodicheskie variatsii i ikh izmenenie s solnechnoi aktivnost'iu [Periodic variations and their changes dependent on solar activity] (*with others*), 21.12–435
See also **Dorman, L. I.**, 21.2–163

Kolomiĭtsov, V. Iu.
Contribution of diffused reflection by the water layer to the outgoing short-wave radiation field, 21.11–15R
See also **Shifrin, K. S.**, 21.11–20R, –22R, –24R, –25R

Koloskova, L. F., *see* **Dmitrieva-Arrago, L. F.**, 21.7–580

Kolosov, M. A.
Sviaz' absoliutnogo koeffitsienta oslableniia intensivnosti lazernogo izlucheniia v vodnykh tumanakh s kontsentratsiei kapel' [Relationship between the absolute attenuation factor of laser radiation intensity in aqueous mists and the concentration of drops], 21.12–525
Sviaz' koeffitsienta oslableniia intensivnosti lazernogo izlucheniia s vodnost'iu iskusstvennykh tumanov [The relation of attenuation coefficient of laser radiation with the water content of artificial fogs] (*with others*) [and English transl.], 21.3–649

Kol'tsov, V. V.
Nakhozhdenie deistvuiushchikh vysot otrazheniia po dannym VNZ [Determination of virtual heights of reflection by the data of back scatter sounding], 21.12–303

Komar, Paul D.
Channelized flow of turbidity currents with application to Monterey deep-sea fan channel, 21.2–727

Komarov, V. D.
Raschet gidrografa polovod'ia nebol'shikh ravninnykh rek na osnove dannykh ob intensivnosti snegotaianiia [Calculating the flood hydrograph of small plains rivers on the basis of data on the intensity of snow melting] (*with* **Makarova, T. T.** and **Sinegub, E. S.**), 21.2–536

Komarov, V. S.
K voprosu o vlagosoderzhanii stratosfery [Water content of the stratosphere], 21.2–239
Mekotorye statisticheskie kharakteristiki vertikal'nykh profileĭ temperatury i vlazhnosti [Some statistical characteristics of vertical temperature and humidity profiles], 21.11–317
Otsenka sootvetstviia empiricheskogo raspredeleniia otnositel'noĭ i udel'noĭ vlashnosti v svobodoĭ atmosfere normal'nomu raspredeleniiu [Evaluation of the agreement of empirical distributions of the relative and specific humidity in the free atmosphere with normal distributions], 21.11–364
Otsenka statisticheskikh kharakteristik vertikal'nykh profileĭ meteorologicheskikh elementov [An evaluation of the statistical characteristics of vertical profiles of meteorological elements] (*with* **Marchenko, A. S.**), 21.11–27
Raspredelenia vodianogo para v svobodnoĭ atmosfere [Distribution of water vapor in the free atmosphere], 21.9–274
Vliianie vertikal'nykh dvizheniĭ vozdukha na vlagosoderzhanie stratosfery [Effect of vertical air motions on the moisture content of the stratosphere], 21.9–275

Komarova, M. V., *see* **Boĭko, L. I.**, 21.11–698

Komarovskiĭ, S. V.
O vozmozhnosti primeneniia poluprovodnikovykh termorezistorov dlia massovykh temperaturnykh izmereniĭ [The possibility of using semiconductor thermistors for large-scale temperature measurements], 21.5–116

Komatsu, Owao, *see* **Imada, Masaru**, 21.7–96

Komlev, A. M.
Opyt kolichestvennoĭ otsenki estestvennogo drenirovaniia rechnykh basseĭnov v zone izbytochnogo uvlazhneniia Zapadno-Sibirskoĭ ravniny [Quantitative evaluation of the natural drainage of river basins

in the zone of excessive moistening of the West Siberian Plain], 21.5–749
Opyt rascheta zimnego stoka rek s pomoshch'iu elektronno-vychislitel'noĭ mashiny [Calculation of the winter river flow with the aid of electronic computers], 21.4–306
See also **Grigor'ev, V. I.**, 21.11–680

Komotskov, A. V., *see* **Ermakov, V. I.,** 21.11–73

Kompanovskiĭ, V. I., *see* **Shifrin, K. S.,** 21.9–76, –415

Kompfner, R.
Windows to space from 10^{10} Hz up, 21.2–406

Kon, A. I.
Fluktuatsii parametrov sfericheskikh voln, rasprostranisiushchikhsia v turbulentnoĭ atmosfere [Fluctuations of the parameters of spherical waves propagating in a turbulent atmosphere] (*with* **Feĭzulin, Z. I.**), 21.11–488
O fokusirovke sveta v turbulentnoi srede [Light focusing in a turbulent medium], 21.11–489

Konashenok, V. N.
Hydrogen compounds in the mesosphere, 21.10–25R

Koncek, M.
Untersuchungen über Folgen von Zeiträumen mit unter- oder übernormaler Temperatur in Mitteleuropa [Investigation of the runs of periods with temperatures above or below normal in Central Europe] (*with* **Cehak, K.**), 21.7–437

Kondo, Ichiro
Measurements of cosmic ray alphaparticle flux at 11.5 GV geomagnetic cut off rigidity (*with others*), 21.10–593

Kondrat'ev, I. G., *see* **Gil'denburg, V. B.,** 21.9–464

Kondrat'ev, K. Ia.
Chislennyĭ eksperiment po issledovaniiu funktsiĭ propuskaniia atmosfernykh gazov [Numerical experiment on the study of transmission functions of atmospheric gases] (*with* **Timofeev, Iu. M.**), 21.1–450
Effect of the vertical aerosol distribution on the radiation regime of the atmosphere (*with* **Bunakova, A. M.**), 21.10–26R
K vozmozhnosti interpretatsii dannykh izmereniĭ ukhodiashchego teplovogo radioizlucheniia s tsel'iu opredeleniia temperatury podstilaiushcheĭ poverkhnosti i vlagosoderzhaniia atmosfery [Possibilities of the interpretation of information on the outgoing thermal radio emission in order to determine temperature of the underlying surface and water content in the atmosphere], 21.3–565
Metodiki vvedeniia popravok, uchityvaiushchikh vliianie tolshchi atmosfery pri opredelenii temperatury podstilauishcheĭ poverkhnosti so sputnikov [The procedures of introduction of corrections taking into account atmospheric depth when determining temperature of the underlying surface from satellites], 21.3–66
O problemakh infrakrasnoĭ spektroskopii atmosfery, sviazannykh s resheniem zadachi opredeleniia temperatury podstilaiushcheĭ poverkhnosti so sputnikov [Problems of infrared atmospheric spectroscopy connected with the determination of the underlying surface temperature] [and English transl.], 21.3–566
O radiatsionnykh faktorakh obshcheĭ tsirkuliatsii atmosfery [Radiation factors of the general circulation of the atmosphere], 21.11–255
O termicheskom zondirovanii atmosfery so sputnikov [Thermal satellite sounding of the atmosphere] (*with* **Pokrovskiĭ, O. M.** and **Timofeev, Iu. M.**), 21.6–383
Ob uchete radiatsionnykh faktorov pri modelirovanii protsessov obshcheĭ tsirkuliatsii atmosfery [The consideration of radiative factors in modeling the processes of the general atmospheric circulation] (*with* **Vulis, I. L.** and **Nikol'skiĭ, G. A.**), 21.6–307
Radiation balance and its components in the troposphere and stratosphere according to ascents of airships in the autumn in 1964–1965 (*with* **Evdokimova, N. M.** and **Nikol'skiĭ, G. A.**), 21.10–27R
Radiation field of the planet Earth (*with others*), 21.9–47R
Radiatsionnye potoki i komponenty oslableniia priamoĭ solnechnoĭ radiatsii v troposfere i stratosfere [Radiation fluxes and the extinction components of direct solar radiation in the troposphere and stratosphere] (*with* **Nikol'skiĭ, G. A.** and **Esipova, E. N.**), 21.2–116
See also **Ashcheulov, S. V.,** 21.2–126, –127; 21.10–3R, –5R, –6R; **D'iachenko, L. N.,** 21.1–424; **Vinogradov, B. V.,** 21.1–159

Kondrat'ev, N. E.
Hydromorphological principles of computations of free meandering, 21.9–46R
Koniaev, K. V.
Izmerenie prostranstvenno–vremennoĭ struktury vysokochastotnykh sostavliaiushchikh vetrovogo volneniia [Measurements of spatial–time structure of high frequency components of sea waves] (*with* **Nazarov, A. A.**), 21.10–833
Koniukov, M. V.
Uravneniia istecheniia plazmy iz Solntsa s uchetom ionnogo sostava [Equations of plasma outflow from the Sun with ion structure taken into account], 21.8–282
See also **Dagkesamanskaia, I. M.**, 21.6–404
Konnen, G. P.
De polarisatie van het hemellicht [Polarization of skylight], 21.12–581
Kononkova, G. E.
Dinamika morskikh voln [Dynamics of sea waves], 21.11–775
Laboratornoe issledovanie statisticheskikh kharakteristik nachal'noĭ stadii razvivaiushchegosia volneniia [Laboratory study of statistical characteristics of initial stage of wind wave development] (*with others*) [and English transl.], 21.2–784
Kononova, V. A.
Nekotory dannye o zagriaznenii atmosfernogo vezdukha v krupnykh sel'skikh poselkakh vykhlopnymi gazami avtotransporta [Some data on the pollution of the atmosphere in large rural settlements with automobile exhaust gases], 21.1–290
Konovalov, G. V., *see* **Chikovskii, S. S.**, 21.11–397
Konovalov, Iu. G.
Analiz reguliarnosti i bezopasnosti poletov v slozhnykh meteorologicheskikh usloviiakh [Analysis of regularity and safety of flights under complex meteorological conditions], 21.7–77
Konovalov, V. G.
Rol' abliatsii v obshchem biodzhete veshchestva i evoliutsii gornogo lednika [Role of ablation in the total matter budget and development of a mountain glacier], 21.10–777
Konovalova, I. Z.
Prostranstvennaia diskretnost' nabliudeniĭ nad techeniiami v pribrezhnoĭ zone moria [Space discreteness of current observation in the near-shore zone of the sea], 21.9–722
Konrad, T. G.
Alignment of clear-air convective cells, 21.1–543
Konradi, Andrei, *see* **Kaufmann, R. L.**, 21.3–387
Konstantinov, A. R.
Experimental study of methods for measuring liquid precipitation (*with others*), 21.10–28R
Ispariaemost' i ee primenenie v agrometeorologicheskikh raschetakh [Evaporation and its application in agrometeorological calculations], 21.1–554
Opyt analiza sviazi urozhaia ozimoĭ pshenitsy s pochvenno-klimaticheskimi usloviiami [Analysis of the relationship between the yield of winter wheat and conditions of soil and climate] (*with* **Pet'kova, V. P.**), 21.2–325
Rezhim ispareniia s territorii Ukrainy [Evaporation regime in the Ukraine] (*with* **Astakhova, N. I.**), 21.2–244
Zavisimost' intensivnosti ispareniia ot razmera ploshchadi ispariaiushchei poverkhnosti pri razlichnykh pogodnykh usloviiakh [Dependence of the intensity of evaporation upon the size of the area of the evaporating surface under different weather conditions], 21.12–492
See also **Astokhova, N. I.**, 21.2–240; 21.12–491; **Vil'kens, A. A.**, 21.2–247
Konstantinov, B. P.
Mikrometeornye issledovaniia na sputnike "Kosmos-135" [Micrometeoric investigations aboard the Cosmos-135 satellite] (*with others*) [and English transl.], 21.2–451
Mikrometeory v okolozemnom kosmicheskom prostranstve po nabliudeniiam na sputnike "Kosmos-163" [Micrometeors in cosmic space near the Earth observed by the artificial satellite "Kosmos-163"], 21.12–614
Konstantinova, G. S.
Deshifrirovanie merslotnykh form rel'efa i merzlotnykh iavleniĭ tundrovykh ravnin [The interpretation of frozen ground topographic forms and of congelation phenomena in the tundra plains], 21.3–567
Konstantinova, V. A.
Sovremennoe sostoianie zalivov Kaspiiskogo moria [The present state of the gulf of the Caspian Sea], 21.11–788

Konteatis, C. A. C.
Republic of Cyprus, 21.11–95R
Kontorshchikova, O. M.
Vliianie agrometeorologicheskikh usloviĭ na sakharistost' svekly v Tsentral'no-Chernozemnoĭ zone [Effect of agrometeorological conditions on sugar content of beets in the Central Chernozem zone], 21.10–464
Koo, Chen Chao
Some theoretical problems concerning the microphysical processes of precipitation, cloud and fog (*with others*), 21.1–10
Koomen, M. J., *see* **Tousey, R.**, 21.2–503
Kopácek, Jaroslav
Výškový profil rychlosti větru [Vertical profile of wind speed], 21.7–87
Kopal, Zdeněk
Moon and man, 21.2–405
Kopcewicz, Teodor
Über die zeitlichen Veränderungen der Konzentration der natürlichen radioaktiven Körper, der Folgeprodukte des Radons, in der bodennahen Luftschicht [Periodic changes in the concentration of the natural radionuclides, resultant products of radon, in the lower troposphere], 21.7–222
Kopecký, M.
Another contribution to the question of the Joule dissipation of magnetic fields in the solar atmosphere, 21.11–652
Fine structure of magnetic fields in sunspots and the dependence of the magnetic field on the spot area, 21.6–724
Quantitative estimations of the anomalous plasma diffusion in an active region (*with* **Kuklin, G. V.**), 21.3–731
Some notes on Babcock's theory of solar activity, 21.11–651
See also **Dmitrieva, M. G.**, 21.8–761
Koppány, György
A népgazdaság távprognosztikai igényei [Demands of the national economy for long range forecasts] (*with* **Róth, R.**), 21.10–115
Infravörös sugárzásmérések meteorológiai müholdakkal [Infrared radiation measurements from satellites], 21.3–155
Kozeptavy elorejelzesek bevalasarol [Success of middle-range forecasts] (*with* **Roth, R.**), 21.12–172
Koprov, B. M., *see* **Zubkovskiĭ, S. L.**, 21.4–211
Koprova, L. I.
O statisticheskikh kharakteristikakh vertikal'noi struktury polei temperatury i vlazhnosti do bol'shikh vysot [Statistical characteristics of vertical structure of the temperature and humidity up to high altitudes] (*with* **Boldyrev, V. G.**) 21.12–457
Ob uchete rasseianiia radiatsii pri opredelenii vysoty oblakov so sputnikov [Consideration of radiation scattering in cloudtop altitude measurements from satellites], 21.7–581
See also **Germogenova, T. A.**, 21.7–346
Koptev, A. P., *see* **Briazgin, N. N.**, 21.6-361
Kopylov, V. P.
Raschet kolichestva vozdukha, prokhodiashchego cherez kadrovyĭ fil'trzabornik aerozolia [Calculations of the amount of air passing through aerosol filter intake frames] (*with* **Snitkin, A. D.**), 21.3–214
Korb, Günther
Numerische Integration der divergent barotropen Modellgleichungen mit Hilfe des Nebencharakteristiken-Verfahrens [Numerical integration of the equations for a model for divergent barotropic channel flow, using the "Nebencharacteristics" method], 21.5–163
Korbacher, G. K.
Wind effects on structures, 21.9–265
Kordas, Bolesław
Metoda badania wpływu rzeki na zmianę dynamicznych zasobów wód gruntowych [Method of study of river effect on dynamic groundwater supply change], 21.4–564
Korea. Fisheries Research and Development Agency, Pusan
Annual Report of Oceanographic Observations, 21.2–669
Koren, Oscar
Development of a moving aluminum foil hail recorder, 21.5–139
Koren', V. I.
Integrirovanie uravneniĭ Sen-Venana bez inertsionnykh chlenov i nekotorye voprosy ikh linearizatsii [Integration of Saint Venant equations without inertial terms and some problems of their linearization], 21.2–537
Primenenie metodov optimizatsii k postroeniu matematicheskoi modeli formirovaniia pavodkov [Application of methods of optimization to the constructions of mathematical models of flood formation] (*with* **Kuchment, L. S.**), 21.8–473
Korff, Hans Clausen
Zusammenhang zwischen dem Tempera-

turgefälle Äquator-Pol und den planetarischen Luftdruckgürteln [The relationship between the equator-to-pole reduction in temperature and the planetary atmospheric pressure belts] (*with* **Flohn, H.**), 21.6–436

Korff, Serge A.
  Scientific report of the Rockwell Polar Flight. Nov. 14–Nov. 17, 1965 (comp.), 21.4–393
  See also **Sandie, W. G.,** 21.7–344

Kornblum, Joseph J.
  Concentration and collection of meteoric dust in the atmosphere, 21.1–299

Korneva, L. A., *see* **Grigorash, Z. K.,** 21.12–797

Kornfield, Jack
  Photographic summary of the Earth's cloud cover for the year 1967 (*with* **Hasler, A. F.**), 21.7–577

Kornfeld, P.
  Numerical solution for condensation of atmospheric vapor on soluble and insoluble nuclei, 21.7–546

Kornienko, E. E.
  Results of seeding clouds with solid CO_2 aimed at the simulation of precipitation over the Ukraine (*with* **Leskov, B. N.** and **Plovina, I. P.**), 21.7–121
  See also **Voĭt, F. Ia.,** 21.10–348, –377

Kornienko, V. I.
  Nekotorye dannye po vlagooborotu Zabaĭkal'ia [Some data on the hydrological cycle in Trans-baikalia], 21.5–543
  Sootnoshenie srednego i turbulentnogo potokov vlagi v atmosfere nad Zabaĭkal'em [Relationship between mean and turbulent fluxes of moisture in the atmosphere over the Transbailkalia region], 21.4–248
  Vliianie ispareniia s ozera Baĭkal na osadki okruzhaiushchikh raĭonov [The effect of evaporation from Lake Baikal on precipitation in adjacent regions], 21.8–421

Kornilov, B. A.
  Usloviia melioratsii v taezhnoi zone Zapadnoi Sibiri [Amelioration conditions in the taiga zone of West Siberia] (*with* **Mukhina, L. I.**), 21.8–690

Kornilov, N. A.
  Razrushenie l'da v more Kosmonavtov letom 1967/68 g. [Ice disintegration in the Cosmonaut Sea, summer 1967/68], 21.6–822
  See also **Chikovskii, S. S.,** 21.11–397

Korobeĭnikov, V. P.
  O prilozhenii analiza razmernosteĭ k voprosam dvizheniia mezhplanetnogo gaza pri solnechnykh vspyshkakh [Application of dimension analysis to problems of interplanetary gas motion during solar flares] [and English transl.], 21.2–485
  O raspredelenii vozmushcheniĭ v solnechnom vetre ot khromosfernykh vspyshek [Distribution of disturbances in the solar wind from chromospheric flares] (*with* **Nikolaev, Iu. M.**), 21.12–623
  On the gas flow due to solar flares, 21.11–632

Korobochkin, I. V.
  Pribor dlia izmereniia defitsita vlazhnosti vozduhka [Instrument for measuring air humidity deficit] (*with* **Lozinskiĭ, Iu. A.**), 21.2–28

Korobov, M. G.
  Radiatsionnye kharakteristiki podstilaiushcheĭ poverkhnosti i oblakov po dannym eksperimental'nykh poletov na samolete Il-18 v 1964–65 gg. [Radiation characteristics of underlying surface and clouds from the experimental flights on the Il-18 airplane in 1964–65] (*with* **Markina, N. G.** and **Pakhomova, L. A.**), 21.1–444

Korobova, I. Ia.
  Iskliuchitel'nyi shtorm 17–18 oktiabria 1967 g. i ego vliianie na rezhim Klaipedskogo podkhodnogo kanala [Extraordinary storm of July 17–18, 1967 and its influence on the regime of the Klaipeda Channel], 21.9–203

Korobova, Z. B.
  On the state of the photosphere before the appearance of sunspots (*with* **Tchandaev, A. K.** and **Vasil'eva, G. I.**), 21.6–719

Korolev, A. I.
  O vozmozhnosti proverki ustoĭchivosti i zakrepleniia snega na sklone vzryvaniem [The possibility of testing the stability and strength of snow on a slope by explosion], 21.11–407
  Osobennosti uvlazhneniia poverkhnostnogo sloia snega v otsutstvie solnechnoi radiatsii i vozmozhmost' razvitiia v nem lavin s tochechnym otryvom [Peculiarities in the moistening of the surface layer of snow in the absence of solar radiation and the possibility of the development avalanches with a point source], 21.11–412

Koroleva, T. A., *see* **Snitkovskiĭ, A. I.,** 21.1–516

Koronkevich, N. I.
- Resursy prochvennoĭ vlagi i urozhaĭ sel'skokhoziaĭstvennykh kul'tur [Soil moisture resources and agricultural crops], 21.11–437
- Rezervy vody dlia zemledeliia v zone nedostatochnogo i neustoichivogo uvlazhneniia [Water resources for agriculture in a zone of insufficient and unstable moisture], 21.11–421
- Varianty otsenki vliianiia khoziaistvennoi deiatel'nosti na stok [Variants in the estimation of the influence of agricultural activities on runoff], 21.12–549
- *See also* **Grin, A. M.,** 21.11–695

Korotaev, G. A.
- Opyt izmereniia osadkov v gorakh radiolokatsionnym metodom [Experience with measuring precipitations in mountains by the radar method], 21.12–46

Korovin, A. I.
- O roli elementov mineral'nogo pitaniia v ustoichivosti rastenii k vesennim zamorozkam [Role of elements of mineral nutrition in the resistance of plants to spring frosts] (*with others*), 21.8–321

Korovin, V. I.
- Analiz urovennogo rezhima oz. Kumdykol' [Analysis of the level variation regime of Lake Kumdykol] (*with* **Baĭtodorova, Z. P.**), 21.10–767

Korshover, J., *see* **Angell, J. K.,** 21.5–486; 21.11–260; **Farkas, E.,** 21.5–326

Korsunova, L. P., *see* **Ivanov-Kholodnyĭ, G. S.,** 21.4–64

Kort, V. G.
- A roli advektsii tepla morskimi techeniiami v krupnomasshtabnom vzaimodeĭstvii okeana v atmosfery [The role of heat advection by sea currents in large-scale interaction between the ocean and the atmosphere] [and English transl.], 21.2–707

Korte, August F.
- Charts giving station precipitation in the plateau states from 850- and 500-millibar lows during winter (*with* **Jorgensen, D. L.** and **Klein, W. H.**), 21.5–609

Korzh, V. D., *see* **Bruevich, S. V.,** 21.4–748

Korzhenevskii, B. A.
- Karst i sviazannye s nim podzemnue vody iugozapadnogo Donbassa [The karst and its underground waters in the southwestern Donbas], 21.11–700

Kosarev, M. V.
- Osnovnye resul'taty izucheniia usloviĭ obrazovaniia lavin na iuzhnykh sklonakh Zapadnogo Tian'-Shania [Basic results of studies on the conditions of avalanche formation on the southern slopes of the western Tyan Shan], 21.11–413

Koscielski, Alexander, *see* **Dennis, A. S.,** 21.3–306; 21.6–619

Koshelenko, I. V.
- Nekotorye voprosy perenosa vlagi v atmosfere v zasushlivye i vlazhnye gody na Ukraine [Some problems of moisture transfer in the atmosphere in dry and wet years over the Ukraine], 21.4–249
- Some characteristics of radiation in fog [Transl. from Russian], 21.3–497

Koshel'kov, Iu. P.
- Raspredelenie temperatury, plotnosti i skorosti vetra v atmosfere nad iuzhnoĭ chast'iu Indiĭskogo okeana [Distribution of temperature, density and wind speed in the atmosphere over the south Indian Ocean], 21.4–37
- *See also* **Gaĭgerov, S. S.,** 21.6–454

Koshel'kova, G. A., *see* **Snitkovskii, A. I.,** 21.12–486; **Sorochinskiĭ, M. A.,** 21.1–517

Koshenko, A. M.
- Fazovoe sostoianie i temperaturnyĭ rezhim oblakov v zonakh frontov nad Ukrainoĭ [The states and the temperature regimes of clouds in frontal zones over the Ukraine], 21.5–594
- Nekotorye osobennosti fazovoĭ sturktury frontal'nykh oblakov nad Ukrainoĭ [Some peculiarities of the phase structure of frontal clouds over the Ukraine], 21.5–595
- Obledenenie samoletov v zonakh atmosfernykh frontov nad Ukrainoĭ [Icing of aircraft in zones in atmospheric fronts over the Ukraine] (*with* **Ponomarenko, I. N.**), 21.9–289

Koske, Peter H., *see* **Düing, W.,** 21.5–512

Kosoian, G. E., *see* **Isaakian, Ia. S.,** 21.6–428

Kosorotova, F. P., *see* **Bespalov, A. I.,** 21.9–122

Koss, Walter James
- Note on the accumulated error in the numerical integration of a simple forecast model, 21.9–81

Kostarev, V. V.
- Meteorologicheskaia radiolokatsiia [Radar meteorology], 21.3–88

O povyshenii tochnosti radiolokatsionnogo izmereniia osadkov [The increase of accuracy of radar precipitation measurements] (*with* **Chernikov, A. A.**), 21.3–659

Kosters, J. J.

Attenuation of the direct solar beam by aerosols (*with* **Kyle, T. G.** and **Murcray, D. G.**), 21.3–514

Kostianoĭ, G. N.

Aktinometricheskiĭradiozond ARZ-TSAO (teoriia pribora i tochnost' izmereniĭ) [Actinometrical radiosonde ARZ-CAO (The theory of the instrument and the measurement accuracy)], 21.7–47

K teorii kompensatsionnykh balansomerov i pirgeometrov [Theory of compensation balancemeter and pyrgeometer], 21.5–107

Sravnenie izmerennykh i rasschitannykh znacheniĭ potokov dlinnovolnovoĭ radiatsii v atmosfere [Comparison of the observed and computed infrared fluxes] (*with* **Niĭlisk, Kh. I.**), 21.6–371

See also **Zaĭtseva, N. A.,** 21.4–134, –135

Kostinskaia, B. I.

Kharakteristika dnevnoĭ i nochnoĭ oblachnosti po nabliudeniiam i sinopticheskie sroki [Characteristics of daytime and nighttime cloudiness according to observations made of standard synoptic times], 21.1–599

Kostiuchenko, V. P.

Izmeneniia zemel'nogo fonda amudar'inskoi del'ty v sviazi s umen'sheniem pritoka rechnykh vod [Changes in the Amu-Dar'ya delta soil base in relation to decreases in flux of river waters] (*with* **Sorkina, R. A.** and **Timoshkina, V. A.**), 21.10–557

Kostiukov, V. V.

Soglasovanie nachal'nykh poleĭ vetra i geopotentsiala dlia barotropnogo prognoza [Coordination of initial wind and geopotential fields for a barotropic forecast] (*with* **Marchnko, A. S.**), 21.3–235

Kostko, O. K.

Raschet parametrov otrazhennykh signalov pri opticheskom sposobe izmereniia plotnosti atmosfery [Evaluation of reflected signal characteristics by optical measuring of the atmospheric density] (*with* **Fadina, V. P.** and **Chaianova, E. A.**), 21.5–215

Statistika scheta fotonov pri izmerenii plotnosti atmosfery opticheskim sposobom [Statistical problems of photon counts in measuring the atmospheric density by optical methods], 21.12–34

Vozmozhnoe opredelenie vertikal'nogo raspredeleniia kontsentratsii ionov v troposfere i stratosfere s pomoshch'iu iskusstvennykh sputnikov Zemli [Possible determination of the vertical distribution of ion concentration in the troposphere and stratosphere by means of artificial satellites], 21.5–316

Kostylev, K. V.

Some aspects of the creation of meteor trains and radio-wave scattering from them, 21.9–521

Kotadia, K. M.

Lunar variation of ionospheric absorption of radio waves at different frequencies (*with* **Patel, B. M.**), 21.1–671

See also **Jani, K. G.,** 21.8–181

Koteswaram, P.

Forecasting of upper winds and temperatures in tropical latitudes, with special reference to jet streams, 21.10–107

Kotik, J.

Uniqueness problem for wave resistance calculated from singularity distributions which are exact at zero Froude number (*with* **Morgan, R.**), 21.2–649

Kotliakov, V. M.

Weshalb gibt es Gletscher auf der Erde? [Why are there glaciers on Earth?], 21.4–608

See also **Grosval'd, M. G.,** 21.12–723

Kotoda, K., *see* **Arai, T.,** 21.8–437

Kousky, V. E., *see* **Wallace, J. M.,** 21.3–438

Koutchmy, S., *see* **Laffineur, M.,** 21.9–553

Kovács, Ágnes, see **Dezső, L.,** 21.2–471

Kovacs, Austin

Variation of some mechanical properties of polar snow, Camp Century, Greenland (*with* **Weeks, W. F.** and **Michitti, F.**), 21.9–328

Koval, A. N.

On the asymmetry of moustaches (*with* **Severnyi, A. B.**), 21.12–620

Koval', I. K.

Opticheskie parametry poverkhnosti i atmosfery Marsa [Optical parameters of the surface and atmosphere of Mars] (*with* **Ianovitskiĭ, E. G.**), 21.10–617

See also **Akademiia Nauk Ukrainskoi SSR, Kiev,** 21.9–2R

Kovalev, I. N., *see* **Filippov, A. Kh.,** 21.7–54

Kovalev, N. P., *see* **Shkudova, G. Ia.,** 21.9–727

Kovar, N. S.
Space contamination due to manned vehicles (*with* **Kovar, R. P.** and **Bonner, G. P.**), 21.10–550
Kovar, R. P., *see* **Kovar, N. S.**, 21.10–550
Kovetz, A.
Effect of coalescence and condensation on rain formation in a cloud of finite vertical extent (*with* **Olund, B.**), 21.4–286
Kovura, Iu. A., *see* **Kokurin, Iu. L.**, 21.11–196
Kovzel,' A. G.
A method for the computation of water yield from snow during snowmelt period, 21.8–462
Kowalczyk, Stefania
Dotychczasowe wyniki prac nad weryfikacją sieci meteorologicznej w Polsce [Former results of work on meteorological network verification in Poland], 21.7–17
Kowalik, Zygmunt
Wind-driven circulation in a shallow sea with application to the Baltic Sea, 21.4–735
Kownacka, Ludwika
Metody obliczania koncentracji cząstek promieniotwórczych na powierzchni Ziemi po naziemnym wybuchu jądrowym [Methods of calculation of the concentrations of the particles falling to the Earth's surface from the cloud originated from the nuclear explosion], 21.7–225
Kowsar, Ahang
Effects of petroleum mulch on soil water content and soil temperature (*with others*), 21.11–323
Kozel'tseva, V. F., *see* **Zverev, N. I.**, 21.11–122
Kozhevnikov, V. P.
O raschete ispareniia s vodoemov s uchetom temperaturnoi stratifikatsii atmosfery [Calculation of evaporation from reservoirs taking into account the temperature stratification of the atmosphere], 21.7–532
Kozhevnikov, V. S.
Laviny basseina r. Dukant [Avalanches in the basin of the river Dukhant], 21.11–408
Kozinets, D. V., *see* **Abashina, E. V.**, 21.10–457
Kozlov, Iu. N.
Chislovye kharakteristiki profileĭ vetra [Numerical characteristics of wind profiles], 21.11–344
Vektornaia korreliatsiia vetra na material vremennykh riadov nabliudeniĭ [Vecto correlation of wind on the basis of tim series of observations], 21.3–627
Kozlov, S. I.
Ob umen'shenii elektronnoĭ plotnosti oblasti F2 posle Amerikanskogo vysot nogo vzryva 9 iiulia 1962 g. [Reduc tion in the electron density of the F2 region after the American high altitud explosion of July 9, 1962], 21.9–173
Kozlov, V. F.
O vliianii rel'efa dna na geostroficheski techeniia Tikhogo okeana [The influ ence of bottom relief on geostrophi currents in the Pacific Ocean] [an English transl.], 21.4–736
See also **Bolgurtsev, B. N.**, 21.2–734 21.4–714
Kozlov, V. P., *see* **Gal'tsev, A. P.**, 21.10–15R; **Malkevich, M. S.**, 21.4–166
Kozlowski, T. T. (ed.)
Water deficits and plant growth, 21.4–25
Kozuchowski, Krzysztof
Rola sztucznych satelitow meteorologi cznych w badaniach atmosfery [Role o artificial meteorologic satellites in research of the atmosphere], 21.11–81
Kozyrev, B. P.
Funktsiia uglovogo raspredeleniia massy atmosfernykh gazov [Function of angl distribution of the mass of atmospheric gases] (*with* **Bazhenov, V. A.**), 21.10–139
Kompensirovannyĭ termoelektricheskiĭ balansomer s beloĭ i blestiashcheĭ priemnym poverkhnostiami, zashchishchennymi ot vozdukhnykh potokov polusferami iz KRS-5 [Compensated thermoelectrical net radiometer with white and polished receiving surfaces protected with KRS-5 hemispheres], 21.1–170
Metody i rezul'taty issledovaniĭ parametrov novykh aktinometricheshikh priborov sistemy LETI i pokhytiĭ poverkhnosteĭ [Methods and results of investigation of parameters of new actinometric instruments and receiving surfaces worked out at Leningrad Electrotechnical Institute] (*with others*), 21.1–171
Raschet spektral'nogo pogloshcheniia infrakrasnoĭ radiatsii ozonom v polose 9.6 mkm [Calculation of the spectral absorption of infrared radiation by ozone in 9.6 band] (*with* **Bazhenov, V. A.**), 21.10–272
Rol' malykh atmosfernykh primeseĭ v

pogloshchenii infrakrasnoĭ radiatsii [The role of N_2O, CH_4 and CO in atmospheric absorption in the infrared] (*with* **Bazhenov, V. A.**) [and English transl.], 21.4–144
Termoelektricheskiĭ fitopiranometr s polusfericheshimi fil'trami iz stekol BC-8 i KC-19 [Thermoelectrical phytopyranometer with hemispherical BC-8 and KC-19 filters], 21.1–172
Vysokochuvstvitel'nyĭ neselektivnyĭ piranometr s chernoĭ priemnoĭ poverkhnost'iu i s ksenonovym napolneniem [High-sensitive non-selective xenon-filled pyranometer with black receiving surface], 21.3–181
Kraav, V. K.
Raschet polusutochnogo priliva i kharakteristik turbulentnosti v Severnom more [Computation of the semidiurnal tide and turbulence parameters in the North Sea] [and English transl.], 21.3–797
Krähenmann, J. A.
Observations on dosage of drugs for anesthesia of domestic animals in temperate climate, 21.11–471
Kraght, P. E.
Warm fog modification, 21.12–184
Kraichnan, Robert H.
Convergents to turbulence functions, 21.11–236
Krall, Nicholas A.
Magnetic field fluctuations near the Moon (*with* **Tidman, D. A.**), 21.11–295
Kramer, E. N.
Statistics and nature of flare meteors (*with* **Markina, A. K.**), 21.10–634
See also **Babadzhanov, P. B.**, 21.11–599
Krasil'shchikov, L. B.
Principles of calibration of longwave actinometric instruments on weather satellites, 21.11–16R
Krasiuk, N. P.
Oslablenie i rasseianie elektromagnitnykh voln dozhdiami razlichnoi prirody [Attenuation and scattering of electromagnetic waves by rains of different origin] (*with* **Rosenberg, V. I.** and **Chistiakov, D. A.**) [and English transl.], 21.3–660
Vliianie variatsiĭ kompleksnogo koeffitsienta prelomleniia na radiolokatsionnye kharakteristiki ledianoĭ sfery [The effect of variations of the complex refraction index on the radar characteristics of an ice sphere] (*with* **Rozenberg, V. I.**), 21.11–46
Krasnogorskaia, N. V.
Warm cloud electricity, 21.9–301
Krasnokutskaia, L. D., *see* **Avaste, O. A.**, 21.7–342
Krasnopol'skiĭ, V. A.
Variatsii svecheniia nochnogo neba v oblasti 2500–3150 Å po nabliudeniiam na sputnike "Kosmos-92" [Variations of night sky luminescence in the region of 2500–3150 Å from observations of the satellite Cosmos-92] [and English transl.], 21.3–521
Krasnovskaia, L. I., *see* **Gaivoronskiĭ, I. I.**, 21.6–153
Krasnow, S.
Physiological chilling as a possible factor in mortality from neoplasia, 21.10–462
Krasovskiĭ, V. I.
[Discussion of] **D. M. Hunten** and **M. B. McElroy**: Metastable $O_2(1\,\Delta)$ as a major source of ions in the D-region [and Reply by] **Hunten** and **McElroy**, 21.1–672
Upper atmosphere as a regulator of geomagnetic storms, substorms and auroras, 21.8–656
Vnutriatmosfernaia migratsiia i dissipatsiia H i He pod vozdeĭstviem magnitogidrodinamicheskikh voln [Interatmospheric migration and dissipation of H and He under the influence of magnetohydrodynamic waves] [and English transl.], 21.4–71
Krat, V. A.
Small flare-like phenomena in the chromosphere, 21.2–486
See also **Abdusamatov, H. I.**, 21.10–646
Kraus, Fritz R.
Noise elimination by piecewise cross correlation of photometer outputs (*with* **Hablutzel, B. C.**), 21.10–21
Kraus, Helmut
Die Entstehung von Strassenglätte und das Problem einer Glättewarnung [Formation of street icing and the problem of ice warning] (*with* **Roth, R.**), 21.6–571
Kraus, J. D.
Spectral data on some Ohio radio sources (*with* **Andrew, B. H.**), 21.8–730
See also **Andrew, B. H.**, 21.7–745
Krause, Gary F., *see* **Schickedanz, P. T.**, 21.6–18
Krause, Gunther
Struktur und Verteilung des Wassers aus dem Roten Meer im Nordwesten des Indischen Ozeans [Structure and distri-

bution of Red Sea water in the northwestern area of the Indian Ocean], 21.2–753

Krause, R., *see* **Glos, E.**, 21.9–595

Krauss, W.
Typical features of internal wave spectra, 21.11–785

Kravchenko, I. V.
Osobye gidrometeorologicheskie iavleniia v marteaprele 1969 g. [Special hydrometeorological phenomena in March and April 1969], 21.3–113

Kravtsov, Iu. A.
O "geometricheskoĭ" depoliarizatsii sveta v turbulentnoĭ atmosfere [The geometric depolarization of light in the turbulent atmosphere], 21.10–489

Kravtsova, M. P., *see* **Rossinskiĭ, K. I.**, 21.6–794; 21.10–43R

Krebs, Robert P., *see* **Pearson, Allen D.**, 21.9–243R

Krechmer, M. V.
Errors in the determination of wind velocity and direction due to inaccurate measurement of coordinates, 21.10–29R
Nekotorye rezul'taty sravneniĭ aerologicheskikh radiotermometrov [Some results of comparisons between upper-air radio thermometers], 21.11–87

Kreem, E. I.
Experience in observing noctilucent clouds in Antarctica, 21.8–583
See also **Belov, V. F.**, 21.3–493

Kreielsheimer, K. S.
Lightning counter to distinguish between ground and cloud flashes (*with* **Lodge-Osborn, D.**), 21.11–105

Kreiss, W. T., *see* **Beard, C. I.**, 21.3–78; 21.6–191; **Tank, W. G.**, 21.3–60

Kreith, Frank
Thermal analysis of balloon-borne instrument packages (*with* **Warren, J. C.**), 21.10–57

Kreitzberg, Carl W.
Application of models to forecasting sensible weather, 21.7–79

Kremenskaia, N. L.
Sinopticheskie usloviia nastupleniia zasuchlivykh periodov v teploe vremia goda v tsentral'nochernozemnykh oblastiakh [Synoptic conditions for the approach of drought periods during the warm parts of the year in the central Black Earth region] (*with* **Nikitenko, S. F.**), 21.8–417

Kremser, G.
Some characteristics of auroral zone X rays, 21.6–407

Kreplin, Robert W.
Solar X-rays: developing background fo comprehensive theory, 21.9–224

Kresák, L.
Structure and evolution of meteor streams survey paper, 21.11–608
See also **Internatl. Ast. Union**, 21.4–48

Krestovskii, O. I.
Vodnyi balans vodosborov VNIGL [Water balance of the VNIGL catchments] 21.8–344

Krichagin, V. I., *see* **Afanas'eva, R. F.** 21.9–241

Krichak, S. O., *see* **Sitnikov, I. G.**, 21.1–22

Kriel, J. P.
Republic of South Africa, 21.11–95R
See also **Enslin, J. F.**, 21.9–624

Kriester, Barbara
Daily and monthly Northern Hemispher 5-millibar synoptic weather maps of th year 1966, Pt. 2–3, April–June and July-Sept. (*with others*), 21.9–158R
Tägliche Höhenkarten der 100-mb-Fläch und der 50-mb-Fläche sowie monatlich Mittelkarten für das Jahr 1968, Te I–IV, 1–4 Vierteljahr [Daily upper-air 100-mb and 50-mb charts includin monthly charts for 1968, Pts. 1–4, First-Fourth-Quarters] (*and others*), 21.9–159R
Tägliche Höhenkarten der 100-mb-Fläch und der 50-mb-Fläche sowie monatlich Mittelkarten für das Jahr 1969, Teil 1 1. Vierteljahr [Daily upper-air, 100-m and 50-mb charts including monthl charts for 1969, Pt. 1, First Quarter (*with others*), 21.9–160R

Krimigis, S. M., *see* **Fritz, T. A.**, 21.8–27

Krinberg, I. A.
O primenimosti kvazistatsionarnogo pr blizheniia pri reshenii uravneniĭ balans zariazhennykh chastits dlia nizhneĭ iono sfery [Application of a quasistationar approximation in solving the balanc equations of charged particles for th low ionosphere] (*with* **Klimov, N. N** and **Velichanskiĭ, B. N.**) [and English transl.], 21.5–351

Krishnamurthy, G., *see* **Agarwal, O. P.** 21.4–113

Krishnamurthy, K.
Theory and experiment in canal seepag estimation using radioisotopes (*with* **Rao, S. M.**), 21.10–561

Krishnamurthy, K. V.
  Meteorology and water resources, 21.11–12
Krishnamurti, T. N.
  Experiments in numerical prediction in low latitudes, 21.5–164
Krishna Rao, P., *see* **Curtis, W. R.**, 21.6–846
Krishna Rao, T. V.
  Sporadic E-layer over Tirupati (*with* **Kesava Murthy, M. J.**), 21.11–197
Krishna Swamy, K. S.
  Intensity of the infrared radiation from interstellar grains in the solar neighborhood, 21.10–578
Kritskiĭ, S. N.
  Fundamental principles of the method for computing maximum runoff (*with* **Menkel', M. F.**), 21.10–30R
  Ob osnovakh teorii regulirovaniia rechnogo stoka [Basic for the theory of river flow regulation] (*with* **Menkel', M. F.**), 21.2–582
  Ob osnovnykh polozheniiakh metodiki rascheta maksimal'nogo stoka [Basic principles of the method for calculating maximal runoff] (*with* **Menkel', M. F.**), 21.6–758
Krivilo, P. F., *see* **Kaganskiĭ, A. S.**, 21.1–100; 21.2–172
Krivorutskiĭ, E. N.
  Vozbuzhdenie i spektry plazmennoĭ turbulentnosti v ob"ektakh s bol'shoĭ plotnost'iu elektromagnitnogo izlucheniia [The excitation and spectra of plasma turbulence in objects with large density of the electromagnetic emission] (*with* **Tsytovich, V. N.**), 21.9–467
Krivoshapkin, P. A.
  Kharakteristiki mezhplanetnogo magnitnogo polia po dannym polusutochnych variatsiĭ kosmicheskikh lucheĭ [Characteristics of the interplanetary magnetic field according to the data of semi-daily variations of cosmic rays] (*with others*) [and English transl.], 21.3–538
Křivský, L.
  Compensation of the maximum magnetic field strengths of opposite polarities in groups of spots at the time of proton flares (*with* **Růžičková-Topolová, B.**), 21.11–633
  Development and spatial structure of proton flares near the limb and coronal phenomena, Pt. 1, Flare on 5.IV.1960, 21.11–634
  Development and spatial structure of proton flares near the limb and coronal phenomena, Pt. 2, Flare of 26.9.1963 and its emission, 21.11–635
  Flares with the ejection of subcosmic radiation in the region of N 27° CMP May 25, 1967 (*with* **Pintér, Š.**), 21.11–636
  Flight time of solar fast particles from flares to the Earth, Supplement II, 21.7–374
  Interaction of magnetic fields and the origin of proton flares, 21.2–487
  On the origin of type II and IV radio sources during flares observed by a radioheliograph on 80 MHz, 21.11–637
Kriz, George J.
  Temperature effects on gamma-ray attenuation equipment, 21.9–240
Kříž, Vladislav
  Ledovka na Ostravsku v zime 1968/69 [The occurrence of glaze in the Ostrava region in winter 1968–1969] (*with* **Lednicky, V.**), 21.8–359
Kronberger, H.
  Role of desalination in water supplies, 21.9–691
Kropachev, L. K., *see* **Al'tman, E. N.**, 21.2–706
Kropp, D. K., *see* **Crutcher, H. L.**, 21.4–312
Kropp, Dorothy K., *see* **Jean, A. G.**, 21.2–74
Kropp, Reinhold, *see* **Israel, H.**, 21.2–350
Krotikov, V. D., *see* **Alekseev, V. A.**, 21.4–457
Krška, Karel
  Ještě několik poznámek k československým typizacím povětrnostních situací [Some supplementary remarks on the Czech classification of meteorological situation], 21.3–446
Kruchinin, Iu. A.
  Inversiia gliatsiologicheskoĭ zonal'nosti v vostochnoĭ chasti Berega Printsessy Astrid [Inversion of glaciological zonation in the eastern part of Princess Astrid Coast], 21.8–445
  Raboty na stantsii novolazarevskoĭ [Activities at Novolazarevskaya station], 21.8–38
Krüger, A., *see* **Klieczek, J.**, 21.4–448
Krueger, A. F.
  Long-term variations in equatorial circulation and rainfall (*with* **Gray, T. I., Jr.**), 21.6–296
  See also **Hubert, L. F.**, 21.1–381
Krueger, Arlin J.
  Atmospheric absorption anomalies in the ultraviolet near an altitude of 50 kilometers, 21.6–380

Rocket measurements of ozone over Hawaii, 21.5–329

Krüger, Helmut

Perioden des troposphärischen Windvektors und Schwankungen der Erdrotation und der Polhöhe [Periods of tropospheric wind vectors and variations of the Earth's rotation and the pole], 21.1–508

Krügler, Friedrich

Bilder einiger markanter Slicks und Stromgrenzen aus verschiedenen See- und Küstengebieten [Profiles of some prominent slicks and current boundaries in various seas and coastal areas], 21.4–757

Kruger, H. B.

General and special approaches to the problem of objective analysis of meteorological variables, 21.1–222

Kruger, J. P., *see* **Louw, W. J.**, 21.5–563

Kruglov, R. A.

Impul'snyi fotometr s elektronnym funktsional'nym preobrazovatelem [An impulse photometer with an electronic converter], 21.8–75

Kruhl, H.

Beratung und Wetternavigation in der Westindienfahrt [Weather advisories and navigation in voyages to the West Indies], 21.11–130

Windschwankungen und Sturmfluten an der Deutschen Nordseeküste [Wind fluctuations and storm flooding on the German North Sea coast], 21.6–497

Krul, V. F. J. M.

Problems of humid and sub-humid zones, 21.11–673

Kruse, E. Gordon, *see* **Haise, Howard R.**, 21.8–688

Krutchkoff, Richard G., *see* **Philpot, John W.**, 21.8–105

Krylov, S. I.

Spektry kolebaniĭ temperatury v poverkhnostnom sloe moria [Temperature fluctuations spectra in the sea surface layer] [and English transl.], 21.6–849

Krylova, L. M.

Sravnenie nekotorykh parametrov plotnosti vozdukha s parametrami, rasschitannymi v predpolozhenii: S = F(T) i S = F(P) [A comparison of some air density parameters with parameters calculated under the assumption of the relationships: S = F(T) and S = F(P)], 21.11–153

Kryndin, A. N.

O prostranstvenno-vremennom izmenen
nekotorykh parametrov temperaturnog
polia Severnoĭ Atlantiki [Spatial an
temporal variations of some parameter
of the temperature field in the Nort
Atlantic Ocean] (*with* **Ped', D. A.**)
21.2–210

Uchet informatsii s okeanicheskikh stants
(korableĭ pogody) pri sostavlenii mesia
chnykh prognozov pogody [Informatio
from ocean stations (weather ships) i
compiling monthly weather forecasts
(*with* **Ped', D. A.**), 21.3–273

Vliianie Severnoĭ Atlantiki na formirovan
sezonnogo polia H_{500} v pervom estestven
nom sinopticheskom raĭone [Effect o
the North Atlantic on seasonal H_{500} fie
formation in the first natural synopti
region], 21.9–407

Ku, Teh Lung

Radium and inorganic carbon in Antarcti
waters (*with* **Li, Y. H.** and **Mathieu**
G. G.), 21.4–677

Kuboki, Kōki, *see* **Asakura, Tadashi**, 21.10
70R

Kuboki, K., *see* **Mukae, M.**, 21.10–471

Kuchment, L. S.

Opredelenie funktsiĭ vliianiia dlia lineĭnyk
modeleĭ stoka [Determination of the in
fluence function for linear runoff mod
els], 21.2–538

Opredelenie funktsiĭ vliianiia dlia lineĭnyk
modeleĭ stoka s neskol'kimi vkhodam
[Determination of the effect functio
of linear hydrological runoff model
with some inlets], 21.3–745

See also **Koren', V. I.**, 21.8–473; **Ne**
chaeva, N. S., 21.9–599

Kuchmezov, O. M., *see* **Abshaev, M. T.**
21.11–39

Kuckes, A. F.

Coherent synchrotron deceleration and th
emission of type II and type III sola
radio bursts (*with* **Sudan , R. N.**)
21.4–449

Kudashkin, G. D., *see* **Iudin, M. I.**, 21.5–161

Kudelin, B. I., *see* **Chebotarev, A. I.**, 21.10–712

Kudriashov, V. M.

Ob osobennostiakh struktury polia v anti-
kanale opredelennogo vida [Structura
properties of the acoustic field in an anti
channel of given form], 21.1–667

Kudyshkin, V. A.

Selevoĭ pavodok na r. Parkentsaĭ [Seasonal floods on the Parkenstai River] (*with* **Bondar, V. A.**), 21.9–344

Kühme, Heinrich
Untersuchungen der Konzentration atmosphärischer Spurengase über dem Atlantik [Investigations of the concentration of atmospheric trace gases on the Atlantic Ocean], 21.1–27

Kuehnast, Irving
1969 Air Force Eastern Test Range computer "printed" rawinsonde (SKEW-T) analysis, 21.12–30

Kühnel, Ingrid
Die Eisabschmelzzeiten für die Otsee östlich der Linie Trelleborg-Arkona und für den Finnischen und Rigaischen Meerbusen sowie für die südlichen Randbezirke der Bottensee [The ice melting time for the Baltic Sea east of the Trelleborg-Arkona line and for the Gulfs of Finland and Riga as well as for the southern peripheral areas of the Gulf of Bothnia], 21.1–765
Eisvorbereitungszeiten für die Ostsee [Preparatory ice periods for the Baltic Sea], 21.9–669

Kuettner, Joachim P.
BOMEX Project (*with* **Holland, J.**), 21.3–20

Kuhn, P. M.
Infrared measurements of variations in stratospheric water vapor (*with* **Lojko, M. S.** and **Petersen, E. W.**), 21.5–549
See also **Gebbie, H. A.**, 21.12–489

Kuiper, Gerard P.
High altitude spectra from NASA CV-990 Jet, Pt. 2, Water vapor on Venus (*with others*), 21.8–737
Identification of the Venus cloud layers, 21.8–738

Kuiper, J. W., *see* **Miller, E. K.**, 21.3–375

Kukharchik, M., *see* **Dikiĭ, L. A.**, 21.6–519

Kukharets, V. P.
Uber die turbulent Diffusion in der Bodenschicht [Turbulent diffusion in the ground layer] (*with* **Tsvang, L. R.**), 21.7–253

Kukhto, A. P.
Ob analogichnosti polia H_{500} [Analogy of the H_{500} field], 21.12–164

Kukin, L. M., *see* **Fedoseev, L. I.**, 21.4–458

Kuklin, G. V.
Proper motions of sunspots and the magnetic field of active regions, 21.8–765
See also **Dmitrieva, M. G.**, 21.8–761; **Kopecký, M.**, 21.3–731

Kuksin, I. E.
Methods of estimating maximum discharge of given probability [Trans. from Russian], 21.4–519

Kukularov, Petŭr
Klimatichno vliianie na poelzashtitnite gorski piasi vŭrkhu viatŭra [Climatic influence of forest shelter belts on winds] (*with* **Peev, B.**), 21.3–624

Kukushkina, R. S.
Dinamika zony poliarnykh siianiĭ i rasprostranenie radiovoln v vysokikh shirotakh [Dynamics of the auroral zone and radiowave propagation into high latitudes] (*with others*), 21.11–518

Kulakovskaia, M. Iu.
Kharakteristika razlichnykh vidov osadkov na Eksperimental'nom meteorologicheskom poligone v kholodnyĭ period goda [Characteristics of different types of precipitation in the Experimental Meteorological Polygon in the cold] (*with* **Kureĭko, I. A.**), 21.8–383
Prodolzhitel'nost' osadkov v kholodnyĭ period goda na Eksperimental'nom meteorologicheskom poligone [Duration of precipitation in the cold period of the year in the Experimental Meteorological Polygon] (*with* **Kureĭko, I. A.**), 21.8–393

Kulandaiswamy, V. C.
A note on Barnes' method of hydrograph separation (*with* **Seetharaman, S.**), 21.9–585

Kulik, M. S.
Ispol'zovanie poligonov v agrometeorologicheskikh issledovaniiakh [Utilization of grounds in agrometeorological investigations], 21.12–15
Osnovy methoda agrometeorologicheskogo prognoza urozhaia ozmykh zernovykh v nechernozemnoĭ zone [The fundamentals of a method for agrometeorological forecasting of harvests of winter crops in the nonblack-earth zone], 21.7–106
Uchet agrometeorologicheskikh uslovii i ustoichivost' urozhainosti [Account of agrometeorological conditions and yield stability], 21.11–472
Vesenniaia podkormka ozimykh v dva sroka s uchetom rezhima uvlazhneniia pochvy [Spring feeding of winter crops in two applications taking into consideration soil moisture regimes], 21.1–653

Kulikov, E. L.
K voprosu polucheniia otsenok tochnosti

raschetnykh dannykh pri reshenii kraevykh zadach elektrodinamiki SVCH [Evaluations of calculated data accuracy in solving the boundary problems of UHF electrodynamics] [and English transl.], 21.4–430

Kulikov, Iu. N.
Struktura ispareniia i puti ee regulirovaniia [Evaporation structure and means of controlling it], 21.11–366

Kulkarni, N. S.
Cumulative frequency distribution of rainfall of different intensities (*with* **Pant, M. B.**), 21.8–397

Kulkarni, P. V.
Direct-calibrating type night airglow photometer, 21.8–250

Kulkarni, R. N.
Day and night measurements of ozone in the Southern Hemisphere, 21.1–280

Kulm, Sally A., *see* **Pattullo, J. G.**, 21.2–701

Kumai, Motoi
Attenuation and backscattering of infrared radiation by ice fog and water fog (*with* **Russell, J. G.**), 21.2–253
Fog modification studies on the Greenland Ice Cap, 21.2–47
Formation and reduction of ice fog, 21.3–650

Kumykov, Kh. K.
K raschetu skorosti dvizheniia snezhnoi laviny [Calculation of the velocity of snow avalanches] (*with* **El'mesov, A. M.**), 21.9–330

Kundu, M. M.
Radar study of a pre-monsoon thunderstorm at Agartala Airport (*with* **De, A. C.**), 21.5–58

Kung, Ernest C.
Further study on the kinetic energy balance, 21.3–414
On kinetic energy dissipation in the atmosphere, 21.3–236
See also **Soong, S. T.**, 21.5–408

Kunkel, Bruce A.
[Comments on] **Richard D. H. Low:** Generalized equation for the solution effect in droplet growth and [Reply by] **Low**, 21.4–265

Kunkler, J. L.
Field kit for determining alkalinity, 21.10–695

Kunreuther, Howard
Economically meaningful and workable system for calculating flood insurance rates (*with* **Sheaffer, J. R.**), 21.12–553

Kunte, P. K., *see* **Gokhale, G. S.**, 21.3–536

Kuo, H. L.
On a simplified radiative–conductive heat transfer equation, 21.6–165
On the boundary layer of a maintained vortex, 21.3–421
See also **Lindzen, R. S.**, 21.7–235

Kuo, Han Hsiung
Distribution of tracers in the deep oceans of the world (*with* **Veronis, G.**), 21.12–755

Kupche, L. V.
Opyt prognoza zanosimosti morshikh kanalov po sviaziam s gidrodinamicheskimi faktorami [Attempt to forecast channel silting in relation to hydrodynamic factors], 21.2–593

Kupchenko, G. S., *see* **Mishchenko, Z. A.**, 21.7–677

Kuperov, L. P.
Krugosvetnoe ekho i sverkhdal'nee rasprostranenie korotkikh radiovoln [Circumworld echo and very distant propagation of short radio waves], 21.4–418

Kuperus, M.
Heating of the solar corona, 21.11–638

Kupetskiĭ, V. N.
O strukture gelioklimaticheskikh sviazeĭ vozmozhnosti ikh ispol'zovaniia v dolgosrochnykh i sverkhdolgosrochnykh prognozakh [Structure of helioclimatic relations and the possibility of their use in long range and very long range forecasting], 21.10–475
O tendentsii sovremennogo morskogo i nazemnogo oledeniia v sviazi s solnechnoi aktivnost'iu [Trend of contemporary sea and land glaciation in connection with solar activity], 21.12–727

Kupriianova, E. I.
Osobennosti vodnogo balansa gornykh raionov [Water balance characteristics of mountain regions], 21.11–359

Kurashima, Atsushi
Studies on the winter and summer monsoons in East Asia based on dynamic concept, 21.1–512

Kurbatkin, G. P.
Nekotorye osobennosti povedeniia ul'tradlinnykh voln v atmosfere [Some peculiarities in the behavior of ultra-long waves in the atmosphere] [and English transl.], 21.6–308
On the dynamics of ultralong waves in the troposphere and lower stratosphere (*with* **Lenshinov, N. I.**), 21.11–256

Kurbatkin, V. P.
K otsenke razlinchnykh sredstv dostavki reagenta v pereokhlazhdennoe oblako [The evaluation of various methods of introducing reagents into supercooled clouds] (*with* **Ushintseva, V. F.**), 21.9–110
K voprosu ucheta effekta vozdeĭstviia na oblaka s tsel'iu polucheniia dopolenitel'nykh osadkov v gorakh po stoku reki (na primere Pskemskoi doliny) [Allowance for the seeding effect to obtain additional precipitation on mountains on the river runoff based on the example of the Pskem Yalley], 21.9–109
Kurdov, A. G.
K raschetu koeffitsienta variatsii minimal'nogo stoka [Calculation of the coefficient of minimum runoff variation], 21.4–520
Kureĭko, I. A., *see* **Kulakovskaia, M. Iu.**, 21.8–383, –393
Kurfis, K. R., *see* **Flowers, E. C.**, 21.5–677
Kurganova, N. M.
Structure of the water balance of bodies of water [Transl. from Russian], 21.6–779
Kurghin, Iu. S., *see* **Deriagin, B. V.**, 21.12–496
Kuritsyn, O. I., *see* **Rodionov, S. F.**, 21.2–25
Kurnosov, V. N., *see* **Fel'dman, Iu. G.**, 21.1–293
Kuroiwa, Daisuke
Liquid permeability of snow, 21.3–212
Kurosaki, Akio
Numerical calculation of the structure of Ekman boundary layer, 21.5–386
Kurskaia, A. A.
Thermal radiation from ice in the centimeter and decimeter bands (*with* **Fedorova, L. V.** and **Iakovleva, G. D.**), 21.9–48R
Kurtz, Emil S.
Trans-Pac: The race you sail by the weather map, 21.9–108
Weather, Pt. 2, 21.2–332; Pt. 3, 21.2–774; Pt. 4, 21.3–452
Kurz, Manfred
Orographische Einflüsse auf Wind und Wetter in Raum Island [Orographic effects upon wind and weather in the Iceland area], 21.6–529
Kusano, K.
Short-period oscillations of wind and pressure (*with* **Syoyama, T.**), 21.6–471
Kusano, Kazuo
Vertical wind shear in the lower layers at the Tokyo International Airport (*with* **Suzuki, Y.** and **Takei, H.**), 21.10–81R
Kusoffsky, U., *see* **Öhman, Y.**, 21.2–489
Kutan, Recai, *see* **Ozal, Korkut**, 21.7–791
Kutiev, Ivan
Neravnovesni protsesi na khomonuklearnite sŭedineniia na kisloroda v niskata ĭonosfera [Non-equilibrium processes of the oxygen homonuclear combinations in the lower ionosphere] (*with* **Serafimov, K.**), 21.11–198
Kutschale, Henry
Arctic hydroacoustics, 21.8–827
Kutuza, B. G.
Eksperimental'nye issledovaniia oslableniia i radioizlucheniia dozhdia v SVCH diapazone [Experimental investigations of attenuation and radio emission of rain in the ultra-high frequency range], 21.1–620; 21.9–49R
See also **Basharinov, A. E.**, 21.1–581; 21.9–7R
Kutzbach, John E., *see* **Hirose, Mototaka**, 21.12–24
Kuvshinova, K. V.
Nekotory dannye po vlagooborotu nad territorieĭ Sredneĭ Azii [Some data on the moisture cycle over the Central Asia territory], 21.9–271
Kuzharskaia, N. F., *see* **Strelkov, G. M.**, 21.2–442
Kuziemski, Jerzy
Hydrological conditions in the vicinity of the Polish Base at Isbjörnhamna, Hornsund, 1958, 21.4–502
Rozważania nad pojęciem odwilży [Considerations of the term thaw], 21.5–480
Kuz'min, A. D.
Atmosphere of Venus from recent investigations, 21.8–739
Kuz'min, P. P.
Determination of the seasonal and monthly evaporation normals from agricultural fields from observations at a network of stations (*with* **Fedorov, S. F.** and **Pomytkin, B. A.**) [Transl. from Russian), 21.5–561
Intra-annual distribution of evaporation from land in the U.S.S.R. (*with others*) [Transl. from Russian], 21.5–562
Opredelenie sezonnykh i mesiachnykh norm ispareniia s sel'skokhoziaĭstvennykh poleĭ

po dannym nabliudeniĭ setevykh stantsiĭ [Determination of seasonal and monthly normals of evaporation from farm fields according to observational data from network stations] (*with* **Fedorov, S. F.** and **Pomytkin, B. A.**), 21.6–542
Snowmelt and water yield from snow cover, 21.8–463
Vnutrigodovoe raspredelenie summarnogo ispareniia s poverkhnosti sushi na territorii SSSR [Intra-annual distribution of evapotranspiration from the ground surface in the U.S.S.R.] (*with others*), 21.7–533

Kuz'min, V. A., *see* **Zatsepin, G. T.**, 21.8–310

Kuznetsov, A. V.
Sinopticheskie protsessy i pogodnye usloviia Antarkticheskikh vod v navigatsionnyĭ period [Synoptical processes and weather conditions over the Antarctic waters in the navigational period] (*with* **Lipovka, A. V.**), 21.3–447

Kuznetsov, M. A.
Izmeneniia poverkhnosti i radiotsionnoaktivnogo sloia snega i l'da v period taianiia [Variations of the surface and of the radiationally active layer of snow and ice during the period of melting], 21.3–498

Kuznetsov, O. A.
Formation of the wind profile in the boundary air layer over the sea surface, 21.9–50R
See also **Byshev, V. I.**, 21.4–196

Kuznetsov, V. I.
Nekotorye rezul'taty izucheniia ispareniia s poĭmennykh zemel' [Some results of the study of evaporation from flood plain soils], 21.6–543

Kvajić, G.
Rejection of impurities by growing ice from a melt (*with* **Brajović, V.** and **Pounder, E. R.**), 21.6–809

Kvashnina, Z. K.
Poluprovodnikovye datchiki nalichiia i prodolzhitel'nosti solnechnogo siianiia avtomaticheskikh meteostantsiĭ [Transistorized sensors for the presence and duration of solar radiation in automatic meteorological stations], 21.9–56

Kvasov, D. D.
Vodnaia massa drevnego ozera v glubinakh Krasnogo moria [Water mass of an ancient lake at the bottom of the Red Sea], 21.12–762

Kvavadze, D. K.
Vozmushcheniia v ionosfere i kpk elektronmagnitnogo polia Zemli [Disturbances in the ionosphere and short-period oscillations of the Earth's electromagnetic field] (*with* **Sharadze, Z. S.**), 21.8–187

Kvifte, G.
Twilight observations, 21.7–705

Kvifte, G. J.
Morphology of the pulsating aurora (*with* **Pettersen, H.**), 21.9–446
See also **Omholt, Anders**, 21.10–519

Kvinge, Thor
Moored oceanographic buoys, 21.11–759

Kvraĭshi, M. M.
Izmereniia summarnoi solnechnoĭ radiatsii v Kabule [Measurements of total solar radiation in Kabul], 21.5–439

Kwizak, Michael
Numerical forecasts of 24-hour precipitation amount (*with* **Davies, D.**), 21.5–166

Kyle, T. G.
Abundance of methane in the atmosphere above 20 kilometers (*with others*), 21.3–322
Atmospheric transmittance in the 590–750 cm^{-1} interval (*with others*), 21.8–242
See also **Kosters, J. J.**, 21.3–514; **Murcray, D. G.**, 21.7–523

Kyono, Jordan, *see* **Serat, W. F.**, 21.5–285

L

Laag, A. E., *see* **Luebs, R. E.**, 21.8–679

Labadie, John W.
Optimal identification of lumped watershed models (*with* **Dracup, J. A.**), 21.6–776

Labitzke, Karin
Midwinter warmings in the upper stratosphere in 1966, 21.2–201

Lacaze, J.
Sur la détermination de la couche limite dans le cas des ondes de relief, au voisinage immédiat de l'obstacle [Determination of the boundary layer of mountain waves, in the immediate vicinity of the barrier], 21.5–539
Sur la théorie des tornades de Pühringer [The Pühringer theory of tornadoes], 21.6–340

LaChapelle, E., *see* **Sommerfeld, R. A.**, 21.11–404

Field guide to snow crystals, 21.4–288

Lachenbruch, Arthur H.
Heat flow in the Arctic (*with* **Marshall, B. V.**), 21.9–736

Lacombe, Henri
Résultats des mesures d'hydrologie et de courants effectuées à bord de la "Calypso" [Results of measurements of hydrology and currents by the Calypso], 21.2–676

Lacoume, J. L.
Étude de l'effet de la traversée de la basse ionosphère et du guide d'onde terreionosphère sur la polarisation des sifflements radio-électriques au sol [Study of the effect of the traversal of the lower ionosphere and of the Earth–ionosphere waveguide on the polarization of whistlers at the ground], 21.10–545

Lacroute, B., *see* **Gelci, R.**, 21.4–371; 21.6–276

Lacy, R. E., *see* **Daws, L. F.**, 21.8–692

Laferty, J. D.
Aerodynamic frequency response measurements of a wind anemometer (*with* **Schmidt, L. V.**), 21.8–63

Laffineur, M.
L'observation photographique pondérée de la couronne solaire: Eclipse total de 22 septembre à Yourgamish (Sibérie) [Balanced photographic observation of the solar corona: total eclipse of Sept. 22, 1968 at Yourgamish, Siberia), 21.9–552
Weighted observation of the corona during the total solar eclipse of September 22, 1968 (*with* **Burnichon, M. L.** and **Koutchmy, S.**), 21.9–553

LaFleur, Daniel
La distribution topographique du rayonnement solaire au Mont St Hilaire pour la période estivale de 1968 [Topographical distribution of solar radiation at Mont St. Hilaire during the summer period, 1968], 21.11–284

Lagos, C. Pablo
Note on the mechanism of the 5577 A OI nightglow emission at 100 km, 21.7–356

LaGrone, A. H., *see* **Dobbins, D. L.**, 21.3–56

Lahey, James F., *see* **Wahl, Eberhard W.**, 21.9–79

Lahmann, Erdwin
Ozon in städtischer Luft [Ozone in urban air], 21.4–38

Laĭkhtman, D. L.
K voprosu o raschete integral'nykh kharakteristik planetarnogo pogranichnogo sloia [The calculation of integral characteristics for the planetary boundary layer] (*with* **Mel'nikova, I. I.**), 21.2–225
Ob otnoshenii koeffitsientov turbulentnogo obmena dlia tepla i kolichestva dvizheniia v prizemnom sloe atmosfery [The ratio of eddy transfers for heat and momentum within the atmospheric surface layer], 21.7–254
See also **Bobyleva, I. M.**, 21.3–586

Laing, M. B., *see* **Valenzuela, G. R.**, 21.5–800

Laing, R. W.
Remote observation of earth resources (*with* **Pardoe, G. K. C.**), 21.12–76

Laird, Norman P.
Anomalous temperature of bottom water in the Panama Basin, 21.8–826
Bottom current measurements in the Tasman Sea (*with* **Ryan, T. V.**), 21.11–771

Laisk, A. Kh., *see* **Keevallik, S. Kh.**, 21.7–337

Laitinen, Erkki
On the warming of the troposphere in spring in north Finland, 21.4–171

Lake, R. A.
Salt rejection by sea ice during growth (*with* **Lewis, E. L.**), 21.5–781

Lakshmi, D. R., *see* **Reddy, B. M.**, 21.11–206

Laktionov, A. G.
Izmenchivost' spektra razmerov kapel' v kuchevom oblake [Variability of the droplet size spectra in the cumuli] (*with* **Tulupov, B. I.**), 21.7–554
See also **Beliaev, S. P.**, 21.3–213; **Volkovitskiĭ, O. A.**, 21.1–565

Lal, D.
Characteristics of large-scale oceanic circulation as derived from the distribution of radioactive elements, 21.12–9R
Collecting a sample of solar wind: an experimetnal study of its capture in metal films, 21.7–375
Meteorites as probes for studying the archaeology of cosmic rays, 21.3–539
Observations on space irradiation of individual crystals of gas-rich meteorites (*with* **Rajan, R. S.**), 21.4–491

Lal, Rattan
Drainage and nutrient effects in a field lysimeter study, Pt. 1, Corn yield and soil conditions (*with* **Taylor, G. S.**), 21.8–490

Lal, Siddheshwar
  Homogeneous metagalactic origin of cosmic rays (*with* **Brunstein, K.**), 21.10–594
Lala, G. G., *see* **McTaggart-Cowan, J. D.**, 21.11–98
Laliberte, G. E.
  Mathematical function for describing capillary pressure–desaturation data, 21.2–562
Lally, Vincent E.
  Summary of status and plans for the GHOST Balloon project (*with* **Lichfield, E. W.**), 21.6–60
  Superpressure balloon flights in the tropical stratosphere (*with* **Schumann, A. P.** and **Reed, R. J.**), 21.4–15
  Use of satellites to track GHOST balloons, 21.3–132
Lalovski, Khr., *see* **Zakhariev, V.**, 21.7–519
Lamar, William L.
  Evaluation of organic color and iron in natural surface waters, 21.2–571
LaMarche, Valmore C., Jr., *see* **Helley, E. J.**, 21.2–550
Lamb, D., *see* **Scott, W. D.**, 21.1–319
Lamb, H. H.
  New look of climatology, 21.7–670
Lamb, James J., *see* **Carlson, A. V.**, 21.1–480
Lambert, D. L., *see* **Chevalier, R. A.**, 21.10–672, –673
Lambert, Gerard
  Existence of periodicity in radon concentrations and in the large-scale circulation at lower altitudes between 40° and 70° South (*with others*), 21.12–327
Lambert, P., *see* **Geneste, L.**, 21.6–284
Lamberth, Roy L., *see* **Webb, W. L.**, 21.3–358
Lambiotte, Jules J., Jr., *see* **McKee, T. B.**, 21.4–253
Lambor, Julian
  Systematyka i nomenklatura dyscyplin hydrogicznych [Systematics and nomenclature of hydrological disciplines], 21.6–737
Lamonds, A. G.
  Water resources of Randolph and Lawrence Counties, Arkansas (*with* **Hines, M. S.** and **Plebuch, R. O.**), 21.4–544
Lamontagne, R. A., *see* **Swinnerton, J. W.**, 21.12–224
Lamoureux, C. E., *see* **Waite, P. J.**, 21.1–409
Lamp, Reiner
  Die jährlichen Schwankungen der Nebelhäufigkeit an deutschen Verkehrsflughäfen [Yearly fluctuations in fog frequency at German commercial airports], 21.8–363
Lampert, F. F., *see* **Fel'dman, Iu. G.**, 21.7–141
Land, Patterson B.
  Wave climatology as an aid to ship routing, Pt. 3, North Pacific Ocean (*with* **Valitski, R.**), 21.10–834
Landau, R. W., *see* **Cuperman, S.**, 21.8–264
Landel, Eugen
  Supra-regional water supply in Baden-Wuerttemberg with particular reference to the state water supply, 21.6–738
Landers, H.
  Climate and crops of 1968 in South Carolina (*with others*), 21.2–292
  Climate and crops of 1969 in South Carolina (*with others*), 21.10–443
  Lake Hartwell recreation area, South Carolina and Georgia (*with* **Carter, H. S.**), 21.4–314
  Preliminary report on South Carolina radar climatology, 21.2–12
  South Carolina radar climatology, April–Nov. 1968, 21.6–43
Landmark, B., *see* **Haug, A.**, 21.11–189; **Jespersen, M.**, 21.11–516
Landry, C. R.
  How hailstones grow, 21.5–640
Landsberg, Hans T., *see* **Clawson, M.**, 21.6–840
Landsberg, Helmut E.
  Atmospheric variability and climatic determinism, 21.2–184
  Note on rapid pulsations of temperature lapse rate (*with* **Maisel, T. N.**), 21.12–444
  See also **Advances in Geophysics, N. Y., Vol. 13**, 21.3–2
Lane, J. A.
  Radar echoes from clear air in relation to refractive-index variations in the troposphere, 21.5–59
  Scintillation and absorption fading on line-of-sight links at 35 and 100 GHz, 21.11–216
  See also **Ashwell, G. E.**, 21.4–45
Lane, N. F.
  Electron cooling by vibrational excitation of O_2 (*with* **Dalgaino, A.**), 21.1–331
Lane, R. K., *see* **Campbell, N. J.**, 21.9–660
Lang, V. D., *see* **Monohan, H. H.**, 21.3–607
Langbein, W. B.
  Hydrological bench marks, 21.4–511
Langdon, Lillian C., *see* **Putnins P.**, 21.11–263

Lange-Hesse, Günther
  Ergebnisse der Polarlichtbeobachtungen im IGJ und IQSY unter besonderer Berücksichtigung der Beiträge deutscher Schiffe [Results of aurora observations made during the IGY and the IQSY with special consideration of the contributions of German ships], 21.3–117
  Radio observations of the aurora by continuous wave transmissions, 21.10–513
Langer, Gerhard
  Photochemical generation of lead oxide ice nuclei from automobile exhaust, 21.12–501
Langleben, M. P.
  Albedo and degree of puddling of a melting cover of sea ice, 21.5–445
Langlois, W. E.
  Total potential energy of finite columns, 21.3–454
Langmann, M. Felix
  El regimen de las lluvias en el gran Buenos Aires [Rainfall pattern in Greater Buenos Aires] (*with* **Jaquenod, H.**), 21.8–387
Langseth, Marcus G., Jr.
  Experiment to measure heat flow from the interior of the Moon (*with* **More, K. A.** and **Johnson, W. E.**), 21.9–494
Lankes, L. R.
  Oceanographic platforms, 21.12–741
Lansing, Livingston
  [Comments on] **Julian W. Posey:** Weather and circulation of Feb. 1968: cold and dry in the east, warm in the west and [Reply by] **Posey**, 21.1–619
Lanterman, W. S., *see* **Conover, J. H.**, 21.8–364
Lanzerotti, L. J.
  Drift mirror instability in the magnetosphere (*with* **Hasegawa, A.** and **Maclennan, C. G.**), 21.4–153
  Interaction between the boundary of the heliosphere and the magnetosphere of Jupiter (*with* **Schulz, M.**), 21.10–625
  Low-energy solar protons and alphas as probes of the interplanetary medium, 21.2–166
  Solar flare alpha to proton ratio changes following interplanetary disturbances (*with* **Robbins, M. F.**), 21.12–624
  Solar proton radiation damage of solar cells at synchronous altitudes, 21.8–283
Lapcheva, V. F., *see* **Sulakvelidze, G. K.**, 21.11–151
Laplace, L.
  Étude sur le plan de vol "Compagnie" des facteurs météorologiques (cas du Boeing 707-328 d'Air Madagascar) [Study of the effect of meteorological factors on the "company" flight plan (case of Boeing 707-328 of Air Madagascar)], 21.12–16
  See also **Bernet, G.**, 21.12–380
Laponov, V. L.
  Nekotorye rezul'taty eksperimental'nykh issledovaniĭ mostovykh skhem razvertyvaiushchego preobrazovaniia s impul'snym pitaniem pri aerologischeskikh i meteorologicheskikh izmereniiakh [Some results of experimental studies of bridge circuits with divided conversion and pulse feeding in aerological and meteorological measurements] (*with others*), 21.5–117
Lapshin, V. I.
  Izmerenie iarkostnoi temperatury izlucheniia atmosfery Zemli v submillimetrovom diapazone s vysoty 35 km [Measurement of the luminance temperature of the Earth's atmosphere radiation in submillimeter range at the height of 35 km), 21.12–36
Lapshova, L. P.
  Comparison of various methods of determining evaporation in an irrigated field in the Vakhsh Valley in Tadzhikistan, 21.9–51R
  Temperaturnyĭ rezhim pochv Vakhshskoĭ doliny [Temperature regime of the soils of the Vakhsh valley], 21.6–463
Larin, A. P.
  Pogloshchenie i ispol'zoyanie solnechnoĭ energii posevami pri razlichnykh usloviiakh proizrastannia [Absorption and utilization of the solar energy by crops under various growth conditions] (*with* **Lebedev, S. I.**), 21.1–426
Larionenko, O. I., *see* **Erokhin, Iu. G.**, 21.9–158
Larionov, G. A.
  Improved device for determining soil permeability by the concentric ring method, 21.12–557
Larivière, G.
  Contribution à l'étude du climat de la Bretagne [Contribution to the study of the climate of Brittany] (*with* **Verdou, J. P.**), 21.3–679
Larras, Jean
  Vitesse des courants de transport dans les brisants [Velocity of longshore currents], 21.4–785

Larsen, James A.
  Conference summary on future conditions of the atmosphere, short and long term prognostication, climatic change: a symposium, 21.12–17
Larsen, Lawrence H.
  Internal waves incident upon a knife edge barrier, 21.12–808
  Preliminary report USC GSS Oceanography, USCGC Ivy (*with* **Barbee, W. D.**), 21.4–771
Larsen, R.
  Comparison of some troposcatter prediction methods, 21.9–140
Larsen, Ralph I.
  Relating air pollutant effects to concentration and control, 21.12–244
Larson, L. E., *see* **Szachta, F. D.**, 21.2–26
Larsonneur, Claude
  Étude de la partie occidentale de la baie de Seine [Study of the western part of the bay of the Seine], 21.2–728
Larsson, Ingemar
  Groundwater in Precambrian rocks in southern Sweden, 21.4–545
  See also **Högström, U.**, 21.5–559
Laskey, L. S., *see* **Baker, Trevor**, 21.11–459
Lassen, Knud
  Polar cap emissions, 21.10–514
Latham, J.
  Experimental studies of the effect of electric fields on the growth of cloud particles, 21.1–561
  Experiments in cloud physics for physics students, 21.7–567
  Influence of electrical forces on cloud physical phenomena, 21.9–294
  Loss of charge and mass from raindrops falling in intense electric fields (*with* **Myers, V.**), 21.5–627
  Theoretical and experimental studies of the instability of drops and pairs of drops subjected to electrical forces, 21.9–295
  See also **Abbas, M. A.**, 21.1–621; 21.5–571
Latif, A.
  Hydrographical investigation of Brahmaputra River in East Pakistan, 21.10–750
Latun, V. S.
  Wind induced and thermohaline circulation in the ocean with a finite depth [Transl. from Russian], 21.2–760
Laucht, Hans
  Eisversetzung im hamburger Stromspaltungsgbiet der Elbe im Januar 1968 [Ice jam in Hamburg bifurcation area of the Elbe River in Jan. 1968], 21.4–624
Laufer, John
  Thoughts on compressible turbulent boundary layers, 21.9–195
Laun, Willi
  Tornadoes und ihre Ursache [Tornadoes and their cause], 21.12–391
Laurenson, Eric M.
  Data error effects in unit hydrograph derivation (*with* **O'Donnell. T.**), 21.5–750
  Education in hydrology and water resources: the Australian picture, 21.7–773
Lauritson, L., *see* **Doolittle, R. C.**, 21.11–79
Lauscher, Friedrich
  Ein Diagramm zur Abschätzung monatlicher Durchschnittshöhen der Schneedecke ostalpiner Orte [Diagram for the evaluation of monthly mean height of the snow cover in areas in the eastern Alps], 21.4–293
  Ein Diagramm zur klimatischen Abschätzung grösster Schneehöhen [Diagram for the climatological estimation of maximum snow depths], 21.4–294
  Eine Analyse von Schneehöhen der Slowakei [Analysis of snow depths in Slovakia], 21.11–400
  Schneehöhen und Sonnenscheindauer alpiner Schizentren [Snow height and sunshine duration in the Alpine skiing centers], 21.2–293
Laussade, Jean Pierre
  Optical communication through random atmospheric turbulence (*with* **Yariv, A.** and **Comly, J.**), 21.4–365
Lauter, E. A.
  Summary of results of atmospheric noise measurements on VLF and LF at different latitudes by a network in Central Europe, aboard of ships and at an Arctic station (*with* **Schaening, B.** and **Weiss, J.**), 21.5–35
  Zur Dauer der ionosphärischen Winteranomalie im Höhenbereich der Mesopausenregion [Duration of the ionospheric winter anomaly at the altitude of the mesopause region], 21.6–233
  See also **Cumme, G. A.**, 21.10–161
Lauterbach, D.
  The influence of reservoir storage on statistical peak flows (*with* **Leder, A.**), 21.10–716
Lautzenheiser, R. E.
  Remarkable point rainfall at Greenfield, N. H., evening of Aug. 2, 1966 (*with*

Rothovius, A. E. and **Sims, J. R.**), 21.10–392
Snowfall, snowfall frequencies, and snow cover data for New England, 21.9–226R
Snowy winter of 1968–1969 in New England through February, 21.1–622

La Valle, Lodovico
Experimental determination of the main influence functions of dynamical meteorology, 21.3–415

Lavenia, Antonino, *see* **Mosetti, Ferruccio,** 21.10–793

Lavign, M., *see* **Layton, R. G.,** 21.7–122

Lavine, James P.
Models of the trapped radiation environment, vol. 5, Inner belt protons (*with* **Vette, J. I.**), 21.8–284

LaViolette, Paul E.
Comparative study: Nimbus II satellite sea surface temperatures versus historical data in a selected region (*with* **Chabot, P. L.**), 21.2–211
A method of eliminating cloud interference in satellite studies of sea surface temperatures (*with* **Chabot, P. L.**), 21.9–731
Nimbus II satellite sea surface temperatures versus historical data in a selected region (*with* **Chabot, P. L.**), 21.2–667
Oceanography from space—Now!, 21.3–758

Lavis, M. E., *see* **Smith, K.,** 21.8–777

Lavoie, R. L.
Investigations of lake-effect storms (*with others*), 21.11–480
Mesoscale numerical model and lake-effect storms, 21.6–323

Lavorko, V. S.
Nekotorye resul'taty eksperimental'nykh issledovaniĭ turbulentnykh fluktuatsiĭ temperatury v poverkhnostnom i privodnom sloiakh moria i atmosfery [Some results of experimental investigations of turbulent temperature fluctuations in the sea surface layer and boundary atmosphere layer][and English transl.], 21.4–161

Lavrent'ev, P. F.
Priblizhennaia otsenka vozmozhnogo ispol'zovaniia vodnykh resursov Kazakhstana [Approximate evaluation of the possibilities of using Kazakhstan water resources] (*with* **Lavrent'eva, L. D.**), 21.4–516

Lavrent'eva, L. D., *see* **Lavrent'ev, P. F.,** 21.4–516

Lavrushin, Iu. A.
Po lednikam Shpitsbergena [The Spitsbergen glaciers], 21.2–622

Lawden, M. D., *see* **Dunford, E.,** 21.3–374

Lawes, E. F.
Filing and publication of meteorological data, 21.10–46

Lawford, R. G.
Synoptic survey of hailfall 1968 for Alberta, Canada (*with* **Currie, D. B.**), 21.1–635

Lawhead, Harley F.
Organization for the regulation of Lake Ontario, 21.6–792

Lawrence, E. N.
[Comments on] **R. G. Barry** and **A. H. Perry:** "Weather-type" frequencies and the recent temperature fluctuation and [Reply by] **Barry** and **Perry,** 21.11–315
High values of atmospheric pollution in summer at Kew and the associated weather, 21.1–300

Lawrence, Robert S.
Remote atmospheric probing by ground-to-ground line-of-sight optical methods, 21.6–11

Lawrynowicz, Richard
Untersuchungen zur Abhängigkeit des Beginns der Obstblüte von der Witterung [Studies on the relaitonship between the flowering of fruit trees and the weather], 21.2–19

Lawrynuik, W. D.
Southwestern Ontario Tornadoes, 21.11–273

Layton, R. G.
[Comments on] **N. H. Fletcher:** Ice nucleation behavior of silver iodide smokes containing a soluble component and [Reply by] **Fletcher,** 21.1–269
Decay and rejuvenation of silver iodide surfaces (*with* **Lavign, M.**), 21.7–122
Student field mill (*with* **Phelps, C. T.**), 21.7–46

Layzer, David
New theory of mid-latitude sporadic E, 21.10–173
Upper-atmosphere winds and their interpretation, Pt. 2, Turbulence in the lower E-region (*with* **Bedinger, J. F.**), 21.9–174

Lazarenko, N. N., *see* **Vinogradov, V. V.,** 21.4–651

Lazarescu, Dumitru
Caracterizarea hidrologica a anului 1968 in Republica Socialista Romania [Hy-

drological Characteristics of 1968 in Rumania], 21.12–660
Lazarev, D. N.
K proektirovaniiu obluchatel'nykh ustanovok dlia izlucheniia rosta rasteniĭ [Design of illumination equipment for investigation of plant growth] (*with* **Frolova, T. M.**), 21.1–427
Lazarev, G. E., *see* **Bugaev, Iu. G.**, 21.12–318
Lazareva, K. I.
Meteorologicheskie usloviia razvitiia iacheĭkovoĭ oblachnosti [Meteorological conditions and cellular clouds development] (*with* **Tsitovich, T. A.**), 21.6–583
Lazarevic, D., *see* **Hazan, R.**, 21.10–698
Leaf, A. L., *see* **Eschner, A. R.**, 21.10–413
Leary, Thomas R.
Ezekiel's wheel, 21.7–573
Lebedev, Alekseĭ Nikolaevich
Climate of Africa, Pt. 1, Air temperature, precipitation, 21.9–52R
Dostovernost' srednikh mesiachnykh summ osadkov v ekvatorial'nykh i priekvatorial'nykh shirotakh po 10-, 20-, 30-, 40- i 50-letnim riadam nabliudeniĭ [The reliability of the mean monthly sums of precipitation in equatorial and close-to-equatorial latitudes according to 10-, 20-, 30-, 40-, and 50-year observation series], 21.6–597
Obespechennost' sutochnykh velichin summarnoĭ solnechnoĭ radiatsii na ostrovakh Indonezii i Okeanii [The reliability of diurnal magnitudes of total solar radiation on the islands of Indonesia and Oceania], 21.6–356
Lebedev, S. L.
O vypadenii osadkov iz konvektivnogo oblaka [Rainfall from a convective cloud], 21.5–613
Lebedev, V. L.
Mirovoĭ okean kak dinamicheskaia sistema (Osnovy kursa "Okeanologicheskie protsessy") [The World Ocean as a dynamic system: basic course on oceanological processes], 21.7–831
Tsirkuliatsionnaia teoriia V. B'erknesa v okeanologii [V. Bjerknes' circulation theory in oceanology], 21.6–842
Lebedeva, I. I., *see* **Nogina, N. A.**, 21.7–457
Lebedeva, K. D.
O sravnimosti pokazaniĭ piranometrov i balansomerov raznykh tipov [Comparison of measurements made with different types of pyranometers and net radiometers] (*with others*), 21.3–182
Lebedinets, V. N.
Evaporation and deceleration of small meteoroids (*with* **Suskova, V. B.**), 21.10–637
Otrazhenie radiovoln ot meteorykh sledov, II, Difraktsionnye kartiny [Radiowave reflection from meteor traces, Pt. 2, Diffraction pictures], (*with* **Sosnova, A. K.**), 21.12–615
Radar meteor orbits, 21.4–490
Radio reflections from meteor trails (*with* **Sosnova, A. K.**), 21.11–561
Lebedinskiĭ, A. I.
Otsenka popravok na neodnovremennost' izmereniia k korreliatsionnym zavisimostiam mezhdu spektral'nymi intensivnostiami izlucheniia Zemli [An evaluation of corrections from non-simultaneity of measurements in correlation functions between spectral intensities of Earth radiation] (*with others*) [and English transl.], 21.3–516
See also **Fel'dshtein, Ia. I.**, 21.10–508
Lebedov, A. N.
Vybor optimal'nogo chisla punktov dlia otsenki klimaticheskogo vozdeĭstviia na materialy [Selection of the optimum number of points for evaluating the climatic effect on materials] (*with* **Khodakova, V. P.**), 21.4–346
LeBel, Peter J.
Analysis of the gamma-ray-backscatter technique for direct measurement of the density of the Martian atmosphere, 21.10–618
Leblanc, G.
Caracteristiques de performances et d'exploitation des avions de transport supersoniques [Performance and operating characteristics of SST aircraft], 21.12–18
Lebrun, J.
Interdisciplinary research project: the water situation on the Plateau des Tailles (*with* **Harroy, J. P.**), 21.9–572
Lecce, B. A.
Tentativi per l'analisi a lungo termine dell' andamento delle temperature nei "tipi analogici" della circolazione media stagionale [Attempt at long range analysis of temperature variations of analog type of mean seasonal circulation], 21.1–240
LeClair, B. P.
Numerical study of the drag on a sphere at low and intermediate Reynolds num-

bers (*with* **Hamielec, A. E.** and **Pruppacher, H. R.**), 21.7–547

LeClerc, E.
Task of the specialized research centers in the prevention of water pollution in Belgium, 21.9–657

Leder, A., *see* **Lauterbach, D.**, 21.10–716

Leder, I. Z.
Korotkoperiodnaia izmenchivost' temperatury i solenosti vody v otdel'nykh raionakh Severnoi Atlantiki [Short-term variability in temperature and salinity of the waters of separate North Atlantic regions], 21.9–733

Ledger, D. C.
Dry season flow characteristics of West African rivers, 21.12–704

Lednický, Václav
Příspěvek k měření půdní vlhkosti [Soil moisture measurements] (*with* **Richter, V.**), 21.1–654
See also **Kříž, Vladislav**, 21.8–359

Leducq, D., *see* **Coantic, M.**, 21.11–95

Lee, Arthur, *see* **Dickson, Robert**, 21.10–828

Lee, Arthur J., *see* **Wooster, W. S.**, 21.2–711; 21.4–673; 21.5–794

Lee, Chin Yuan
Macro-turbulence in wind waves, 21.6–509

Lee, Clyde B.
Kentucky air–soil temperature climatology, 21.9–242

Lee, G. Fred
Use of chemical composition of freshwater clamshells as indicators of palehydrologic conditions (*with* **Wilson, W.**), 21.10–678
See also **Delfino, Joseph J.**, 21.7–814; 21.10–764

Lee, J.
Estimation of runoff from rainfall for New Brunswick watersheds (*with* **Bray, D. I.**), 21.8–456

Lee, Jean T., *see* **Burnham, J.**, 21.7–472

Lee, R. W.
Review of line-of-sight propagation studies of the small-scale structure of the atmosphere, 21.10–30

Lee, Richard
Latitude, elevation, and mean temperature in the northeast, 21.4–157

Lee, Robert E., Jr.
Size determination of atmospheric phosphate, nitrate, chloride, and ammonium particulate in several urban areas (*with* **Patterson, R. K.**), 21.5–264

Lee, Robert P.
Dimensional analysis of the errors of atmospheric sound ranging, 21.2–391

Lee, T. H., *see* **Gille, J. C.**, 21.6–707

Lee, W. H. K., *see* **Von Herzen, R. P.**, 21.10–829

Leedham, Clive D.
Santa Cruz Acoustic Range Facility (SCARF) (*with* **Chalfant, D. A.**), 21.2–694

Leese, J. A.
Archiving and climatological applications of meteorological satellite data (*with* **Booth, A. L.** and **Godshall, F. A.**), 21.5–97

Leflat, O. N.
Sviaz'khimicheskogo sostava gruntovynkh vod iugo-vostochnogo i iuzhnogo poberezh'ia Issyk-Kulia s klimaticheskimi i litologicheskimi usloviiami [Relation of the chemical composition of ground waters of the southeastern and southern shores of Lake Issyk-Kul to the climatic and lithological conditions], 21.6–769

Le Floch, J.
Mesures de courant au voisinage du fond dans le Golfe de Gascogne [Current measurements of near the bottom in the Bay of Gascony] (*with* **Mauvais, J. L.**), 21.1–742

Leftus, V., *see* **Nestorov, G.**, 21.2–76

Legen'ka, A. D., *see* **Fatkullin, M. N.**, 21.8–174

Legen'kov, A. P.
Rezul'taty izmereniia deformatsii mnogoletnego ledianogo polia invarnymi provolokami [Results of deformation measurements of the long standing ice field by invar wires] (*with* **Uglev, V. D.**), 21.12–731

Le Gourieres, D.
Détermination du débit maximum de crue possible d'un cours d'eau à partir de son hydrogramme unitaire et de la courbe intensité maximale durée [Determination of the maximum possible flood discharge on the basis of a unit hydrograph and of the maximum intensity duration curve], 21.9–586

LeGrand, H. E., *see* **Stringfield, V. T.**, 21.10–731, –733

Lehman, Oliver R., *see* **Lotspeich, F. B.**, 21.2–611

Lehmann, Angela
Ein Vergleich der in verscheidenen Ländern in der Gutachterpraxis gebräuch-

lichen Metoden zur rechnerischen Abschätzung der Ausbreitung luftfremder Stoffe in der Atmosphäre [Comparison of technical evaluation methods employed in various countries for numerical assessment of diffusion of contaminants in the atmosphere], 21.6–488

Lehmann, G.
Blitzschädendichte, Gewitterhäufigkeit, -zugrichtung und -geschwindigkeit im Bezirk, Dresden in den Jahren 1958–1965 [Lightning damage density patterns, and frequency, path, and speed of thunderstorms in the Dresden District during 1958–1965], 21.8–627

Leidreiter, W.
Raumklimatische Bedingungen während der Heizperiode [Indoor climate requirements during periods of heated areas], 21.7–682

Leighly, John
On the education of climatologists, 21.2–285

Leipper, Dale F.
Sequence of current patterns in the Gulf of Mexico, 21.5–798

Leiterer, Ulrich
Entwicklung einer optischen Einrichtung für cosinusgerechte spektrale Strahlungsmessungen [Development of an optical device for spectral radiation measurements according to the cosine law], 21.3–183

Leith, C. E.
Two dimensional eddy viscosity coefficients, 21.5–387

Lejeune, G.
Study of the daytime electron temperature (*with* **Petit, M.**), 21.6–234

Lemaitre, M. P., *see* **Girard, A.**, 21.12–426

Le Mehaute, Bernard
Introduction to hydrodynamics and water waves, 21.12–735
See also **Divoky, David**, 21.12–792

Lemeur, R., *see* **Impens, I.**, 21.4–129; 21.7–335

Lemon, E. R.
Photosynthesis under field conditions (*with* **Wright, J. L.** and **Drake, G. M.**), 21.5–225; (*with* **Wright, J. L.**), 21.6–369

Léna, Pierre
Far infrared observation of a sunspot, 21.9–534
See also **Eddy, J. A.**, 21.4–138; 21.8–751

Lenchek, Allen M., *see* **Sousk, Stephen F.**, 21.10–595

Lenhard, Robert W., Jr., *see* **Tattelman, P. I.**, 21.5–481

Leningrad. Glavnaia Geofizicheskaia Observatoriia
Metodika meteorologicheskikh nabliudeniĭ [Methods of meteorological observations], 21.10–46R
Satellite meteorology, 21.11–86R
Transfer of microwave radiation in the atmosphere, 21.9–54R
Voeikov Main Geophysical Observatory, 1917–1967, 21.12–25R

Lenk, P.
Research of fresh water in a saline environment, 21.9–644

Lennon, G. W.
Evaluation of tide gage performance through the Van De Casteele test, 21.1–726

Lenoble, Jacqueline
Remarques sur le rayonnement diffusé par une atmosphère planétaire épaisse suivant la loi de Rayleigh [Remarks of the diffuse radiation by the dense planetary atmosphere according to the Rayleigh law], 21.4–370

Lenskinov, N. I., *see* **Kurbatkin, G. P.**, 21.11–256

Lentini, A. D.
Temperature trends in Sacramento, 21.2–186

Leonard, Raymond E.
Treetop tramway system for meteorological studies (*with* **Eschner, A. R.**), 21.3–171
See also **Eschner, A. R.**, 21.10–413

Leone, Ida A.
Importance of moisture in ozone phytotoxicity (*with* **Brennan, E.**), 21.5–226

Leonov, E. A.
O prostranstvennom raspredelenii vlagozapasov na oroshaemykh poliakh pri polivakh dozhdevaniem [Space distribution of water content in irrigated fields with sprinkling irrigation], 21.11–438

Leonov, L. F.
Experimental study of the possibility of passivating the hygroscopic nuclei by means of cetyl alcohol vapors (*with others*), 21.12–185

Leonov, M. P.
Intensification of precipitation over a weather experiment range in the winter

of 1963–1964 (*with* **Nerobeeva, T. D.**), 21.1–270
  Ob otsenkakh vozdeĭstviĭ na pereokhlazhdennye oblaka [Estimates of influence upon supercooled clouds], 21.3–310
Leonov, V. Kh.
  O nekotorykh eksperimental'nykh metodakh v issledovaniiakh variatsii kosmicheskikh luchei [Some experimental techniques in cosmic-ray variations study] (*with* **Blenaru, D.**), 21.12–436
Leont'ev, N. F., *see* **Kisin, I. M.**, 21.3–19
Leont'evskiĭ, B. B.
  Problem of allowing for the influence of agricultural melioration practices on flow in the construction of a general plan for the utilization and protection of the water resources of the U.S.S.R., 21.9–53R
Leovy, C. B.
  Bulk transfer coefficient for heat transfer, 21.3–423
  Mars: theoretical aspects of meteorology, 21.2–445
  See also **Huschke, R. E.**, 21.5–400
Leovy, Conway
  Energetics of the middle atmosphere, 21.2–91
  Numerical simulation of the atmospheric circulation and climate of Mars (*with* **Mintz, Y.**), 21.7–756
Le Provost, Christian, *see* **Chabert d'Hieres, G.**, 21.2–787
Lerfald, G. M.
  Hall-effect magnetometers in scientific rocket payloads (*with* **Ecklund, W. L.**), 21.1–678
LeRoux, E. F., *see* **Adolphson, D. G.**, 21.2–557
Leroy, J. L.
  Évolution des émissions coronales au cours de la vie d'un centre actif [Evolution of coronal emissions during the life of an active center] (*with* **Rösch, J.** and **Trellis, M.**), 21.1–710
  Photométries comparées des émissions de l'hydrogène et de l'hélium dans les régions externes des protubérances [Photometric comparison of hydrogen and helium emissions in the regions of external protuberances], 21.11–645
Le Saget, A.
  Use of modern synthesis methods for the quantitative examination of water resources (*with* **Prudhomme, P.**), 21.11–705
Leško, Ryszard
  Bioklimatische Verhältnisse an Küsten des Schwarzen Meeres und der Adria auf Grund der Luftenthalpie [Bioclimatic conditions along the coast of the Black Sea and the Adriatic as a basis of air enthalpy] (*with* **Gregorczuk, M.**), 21.6–429
  Warunki cieplne morskich plaz Polskiego Batyku [Thermal conditions on the Polish beaches of the Baltic Sea], 21.11–305
Leskov, B. N.
  Nekotorye rezul'taty issledovaniia protsessa rasprostraneniia kristallizatsii po vertikali v sloistoobraznykh oblakakh [Some results of research into the process of propagation of crystallization along the vertical in stratiform clouds] (*with* **Polovina, I. P.**), 21.10–123
  O metodike provedeniia opytov i tochnosti izmereniia zon iskusstvennoĭ kristallizatsii [Experimental construction methods and precision in measuring artificial crystallization zones] (*with* **Polovina, I. P.**), 21.10–122
  See also **Kornienko, E. E.**, 21.7–121
Leskov, G. A.
  Computation of design spring flood hydrograph, 21.10–700
Lester, Peter F.
  Study of the structure and behavior of jet streams over the western United States, 21.5–521
  See also **Wooldridge, G.**, 21.1–546
Letey, J., *see* **Yu, Peter T.**, 21.7–660
Lethbridge, Mae
  Satellite radiation measurements and synoptic data (*with* **Panofsky, H. A.**), 21.12–77
Lettau, B.
  Transport of moisture into the Antarctic interior, 21.4–251
  Wind structure in the equatorial maritime friction layer, 21.6–502
Lettau, Heinz H.
  Evapotranspiration climatonomy, Pt. 1, 21.6–544
  New turbulent-transfer theory based on Eulerian concepts of eddy displacement structure, 21.1–369
  Note on aerodynamic roughness-parameter estimation on the basis of roughness-element description, 21.6–279
  Shortwave radiation climatology (*with* **Lettau, K.**), 21.5–450

Variangular wind spirals (*with* **Dabberdt, W. F.**), 21.12–358

Lettau, K., *see* **Lettau, H.**, 21.5–450

Levanon, N.

Determination of the sea surface slopes distribution and wind velocity using Sun glitter viewed from a synchronous satellite, 21.8–825

Levchenko, G. P.

Issledovanie elementov vodnogo balansa khlopkovogo polia v Iuzhnom Kazakhstane [Investigation of the elements of the water balance of a cotton field in South Kazakhstan] (*with* **Tishchenko, P. V.**), 21.8–378

See also **Vershinin, A. P.**, 21.5–435

Levenko, A. A.

Deviation of the measured temperature, humidity, and wind speed gradients at 1 m from those calculated by the logarithmic law under nonequilibrium conditions, 21.10–31R

Metodika rascheta temperatury deiatel'noĭ poverkhnosti, effektivnogo izlucheniia i ispariaemosti po meteodannym [Method of calculating the temperature of the active surface, effective radiation and evaporation according to meteorological data], 21.1–95

Levenko, I. T.

Nekotorye voprosy vodnogo rezhima poleĭ kukuruzy v usloviiakh orosheniia [Some problems of the water regime of irrigated maize fields] (*with* **Shelud'ko, N. G.**), 21.2–281

Levert, C.

Regenvalstatistieken, hoeveelheden neerslag in tijdvakken van 5 minuten tot 5 jaren [Rainfall statistics, amounts of precipitation in periods of 5 minutes to 5 years], 21.7–587

Levi, L.

Orientation of ice crystals grown by accretion of supercooled droplets (*with* **Aufdermaur, A. N.**), 21.6–620

Levin, A. G.

Method of rainfall floods computation and forecasting using discharge data of small rivers, 21.7–645

Levin, A. V.

K teorii turbulentnoĭ diffuzii [The theory of turbulent diffusion], 21.10–229

Levin, L. M.

Modification of convective clouds with the help of artificially created vertical jets (*with* **Vul'fson, N. I.**), 21.7–116

See also **Klepikova, N. V.**, 21.3–335; **Voloshcuk, V. M.**, 21.3–338; 21.12–269; **Vul'fson, N. I.**, 21.11–140

Levine, Joel S.

The ashen light: an auroral phenomenon on Venus, 21.9–504

Levings, William H., III, *see* **Renard, R. J.**, 21.3–242

Levinson, A. A., *see* **Hitchon, Brian**, 21.10–745

Levkov, L.

Eksperimentalni izsledvaniia vŭrkhu zavisimostta mezhdu ledoobrazuvashtata aktivnost na AgI i kontsentratsiiata mu v golemi preokhladeni vodni kapki [Experimental investigations on the relation between ice-forming activity of AgI and its concentration in big over-cooled water drops], 21.11–146

Kondenzatsionen protses vŭrkhu grapava ravna podlozhka [A condensation process on a rough flat padding], 21.6–557

Vurkhu mekhanizma na kondenzatsionnite protsesi pri iadra s grapava povurkhnost [Mechanism of the condensation processes in nuclei with rough surfaces], 21.7–548

Levy, G. S.

Pioneer-6: Measurement of transient Faraday rotation phenomena observed during solar occultation, 21.11–646

Lew, Stephen K.

On the dynamic response of the thermosphere at low altitudes to geomagnetic disturbances, 21.4–53

Lewak, G. J., *see* **Chen, C. S.**, 21.3–372

Lewińska, Janina

O pionowym gradiencie temperatury w przyziemnej warstwie powietrza [The vertical temperature gradient in near-ground air layer], 21.5–474

Lewis, E. L., *see* **Lake, R. A.**, 21.5–781

Lewis, Frank, *see* **Alaka, M. A.**, 21.5–157; **Klein, William H.**, 21.7–92; 21.12–143

Lewis, John Simpson

Atmosphere, clouds, and surface conditions of Venus [and] Spallogenic rare gases and the cavities in iron meteorites, 21.2–441

The clouds of Jupiter and the NH_3–H_2O and NH_3–H_2S systems, 21.10–626

[Comments on] **N. Fukuta: T. L. Wang** and **W. F. Libby:** Ice nucleation in a Venus atmosphere and [Reply by] **Fukuta; Wang** and **Libby**, 21.10–619

Observability of spectroscopically active compounds in the atmosphere of Jupiter, 21.11–588

Lhermitte, Roger M.
Atmospheric probing by Doppler radar and [Comments by] **E. Kessler,** 21.6–44
Note on the observation of small-scale atmospheric turbulence by Doppler radar techniques, 21.10–321

Li, Kun
Effect of macroscopic properties of manganese oxides on absorption of sulfur dioxide (*with* **Rothfus, R. R.** and **Adey, A. H.**), 21.6–176

Li, Yuan Hui
Degree of saturation of $CaCO_3$ in the oceans (*with* **Takahashi, T.** and **Broecker, W. S.**), 21.7–843
See also **Ku, T. L.,** 21.4–677

Liang, Wen S., *see* **Smith, Clifford D.,** 21.9–577

Liannoĭ, B. E., *see* **Kashprovskii, V. E.,** 21.7–737

Liapunova, I. B.
Dolgosrochnyi prognoz pritoka vody v krupnye ozera Ladozhskogo basseina [Long-range forecasting of water inflow into the large lakes of the Ladoga basin], 21.12–661

Libby, L. Marshall
Solar energy without neutrons (*with* **Thomas, F. J.**), 21.2–456

Libby, W. F., *see* **Berger, R.,** 21.1–277; **Fukuta, N.,** 21.6–700

Libizangomo, Joumas
Gabon, 21.11–95R

Libya. Ministry of Agriculture
General water conditions in the Kingdom of Libya, 21.11–95R

Lichfield, Ernest W.
Pressure-subtracting hypsometer, 21.5–120
See also **Lally, V. E.,** 21.6–60

Lieb, Herbert S.
When the snow melted, 21.1–777

Liebe, H.
Dispersion studies of moist air near 1.35 cm wavelength (*with others*), 21.9–272

Liebermann, R. W., *see* **Lowke, J. J.,** 21.8–645

Liebscher, Hans Jurgen
Neue wägbare und registrierende Lysimeteranlage in Niedermendig (Eifel) [New weighing and recording lysimeter at Niedermendig (Eifel)], 21.12–664

Liepolt, Reinhard
International control of water quality along the Danube, 21.9–658

Liese, Rudolf
Über das jahreszeitliche Wandern schwerer Sturmfluten und tiefer Luftdruckwerte und über eine Deutung dieser Erscheinung aus Planetenbewegungen [On the seasonal shifting of heavy high tides and low pressure values, and the possibility of finding an explanation in planetary movements], 21.4–761

Liestol, Olav
Glacier surges in West Spitsbergen, 21.10–780
Glasiologiske undersokelser i 1968 [Glaciological research in 1968], 21.10–778

Lieurance, N. A.
Aviation weather service and requirements 1970–1980, 21.5–14
O_3–CO_2-weather, 21.5–75

Lifanov, P. K., *see* **Glazyrin, G. E.,** 21.9–35R

Lifshits, V. M.
Raschet optimal'nykh klimaticheskikh marshrutov plavaniia sudov v okeane [Computation of the climatically most suitable sea routes for ships], 21.2–783
See also **Beliaev, Iu. I.,** 21.1–401

Lilienfeld, Pedro, *see* **Solon, L. R.,** 21.1–205

Lillard, J. H., *see* **Jones, J. Nick,** 21.7–652

Lilliequist, Carl G., *see* **Altschuler, M. D.,** 21.1–691

Lilly, D. K.
Front range mountain waves, Pt. 1, 21.7–516
Models of cloud-topped mixed layers under a strong inversion, 21.1–350
See also **Toutenhoofd, Wim.,** 21.7–516

Limbăseanu, Tamara, *see* **Militaru, Fl.,** 21.1–396

Lin, Albert, *see* **Divoky, David,** 21.12–792

Lin, J. T.
A modified hypothesis on turbulence spectra in the buoyancy subrange of stably stratified shear flow (*with* **Panchev, S.** and **Cermak, J. E.**), 21.10–230

Linacre, Edward T.
Empirical relationships involving the global radiation intensity and ambient temperature at various latitudes and altitudes, 21.5–440

Linaweaver, F. P., Jr.
Education of the water user, 21.6–763

Lindberg, Walter
Den alminnelige luftforurensning i Norge [The general air pollution in Norway], 21.8–140

Lindblad, B. A.
  Long-term variations in meteor radar rates, meteor heights and radar–echo amplitudes, 21.9–472
  Measurement of micrometeorite impacts from a sounding rocket during a noctilucent cloud display, 21.8–584
Lindzen, R. S.
  Reliable method for the numerical integration of a large class of ordinary and partial differential equations (*with* **Kuo, H. L.**), 21.7–235
  Rossby waves with negative equivalent depths: comments on a note by **G. A. Corby**, 21.1–390
  Vertical momentum transport by large-scale disturbances of the equatorial lower stratosphere, 21.11–257
Lineĭkin, P. S.
  O vliianii glubiny okeana na struktury termoklina [Effect of ocean depth on thermocline structure], 21.2–750
Ling, Ch., *see* **Dütsch, H. U.**, 21.7–166, –167, –168
Lingenfelter, R. E.
  Solar flare optical, neutron and gamma-ray emission, 21.9–543
Lingova, St.
  Nekotorye zakonomernosti dnevnogo i godovogo khoda radiatsionnogo balansa [Some regularities in the diurnal and annual variations of the radiation balance], 21.3–499
  Vŭrkhu sŭotnoshenieto mezhdu radiatsionniia balans na kŭsovŭlnovata i dŭlgovŭlnovata radiatsiia [The correlation between the radiation balance of the short-wave and long-wave radiation], 21.2–111
  See also **Peev, B.**, 21.2–308
Link, František
  Eclipse phenomena in astronomy, 21.1–11
  Optical model for the detection of cosmic dust in the upper atmosphere, 21.8–578
  Sur l'utilité des phénomènes crépusculaires pour l'exploration de la haute atmosphère [Usefulness of twilight phenomena in the exploration of the upper atmosphere], 21.9–146
  Tables des trajectoires lumineuses dans l'atmosphère terrestre [Tables of light trajectories in the terrestrial atmosphere] (*with* **Neužil, L.**), 21.4–366
Linnenbom, V. J., *see* **Swinnerton, J. W.**, 21.5–231; 21.12–224
Linsky, Jeffrey L.
  Can the ion H_3^+ account for missing opacity in the solar ultraviolet?, 21.10–647
Lipmanovich, Ia. R.
  Issledovanie vozmozhnosti prognozirovaniia oseĭ struĭnykh techeniĭ metodom analogov s pomoshch'iu tsifrovykh vychislitel'nykh mashin [Study of the possibility of forecasting the axes of jet streams by the analog method using a computer], 21.1–243
Lipovka, A. V., *see* **Kuznetsov, A. V.**, 21.3–447
Lipovskaia, V. I.
  Meteorologicheskie usloviia pri sil'nykh snegopadakh [Meteorological conditions during heavy snowfall], 21.4–291
  See also **Mikhel', Vasilii Mikhaĭlovich**, 21.7–636
Lippert, J., *see* **Aarkrog, A.**, 21.12–339
Lipps, Frank B.
  Barotropic stability and tropical disturbances, 21.11–270
Liser, I. Ia.
  K raschetu poter' rechnogo stoka na ledoobrazovanie [Computation of river flow loss due to icing], 21.2–583
  See also **Grigor'ev, V. I.**, 21.11–680
Lisitsin, A. P.
  Recent sedimentation in the Bering Sea, 21.1–12
List, Robert J.
  Using radioactive tracers to develop a model of the circulation of the stratosphere (*with* **Telegadas, K.**), 21.3–432
  See also **Machta, Lester**, 21.12–345
List, Roland
  Pressure perturbations and buoyancy in convective clouds (*with* **Lozowski, E. P.**), 21.6–584
  Some effects of high particle concentration on the growth of precipitation and the dynamics of cloud models (*with* **Lozowski, E. P.**), 21.1–607
  See also **Schuepp, P. H.**, 21.3–672
Liszka, L.
  On the dynamics of Hα-structures in prominences, 21.2–497
  Scintillations of satellite signals, 21.10–63
Litskevich, V. K., *see* **Gerburt-Geibovich, A. A.**, 21.7–689
Little, Arthur D., Inc., Cambridge, Mass., *see* **Horne, R. A.**, 21.1–559

Little, C. G.
Acoustic methods of remote probing of the lower atmosphere, 21.8–660
See also **Ochs, G. R.**, 21.10–775
Litton Systems, Inc., Mellonics Systems Development Div., Monterey, Calif., *see* **Woodworth, W. C.**, 21.3–342
Litva, J.
Passive element high power transmitters (*with* **Fulford, J. A.**), 12.6–685
Litvin, N. N., *see* **Sapozhnikova, S. A.**, 21.2–181
Lityńska, Zenobia
Próba zastosowania wybranych metod prognoz burz dla Polski [Test of some thunderstorm forecasting methods carried out in Poland] (*with* **Niewiadomaki, M.** and **Piwkowski, H.**), 21.6–149
Uproszczenie metody prognozy zamarzania jezior Pojezierza Mazurskiego [Simplification of method of forecasting freezing of the Masurian Lake district], 21.2–629
Warunki występowania gołoledzi i szadzi w Polsce oraz możliwości prognozy gołoledzi [The conditions of glaze and rim formation in Poland and the possibilities of glaze forecasting] (*with* **Wirkus, F.** and **Wirth, Z.**), 21.7–557
Liu, B. Y. H.
Influence of an applied electric field on the diffusion of ions to aerosol particles (*with* **Yeh, H. C.**), 21.9–435
See also **Whitby, Kenneth T.**, 21.12–273
Liu, Chuan Sheng
Electrostatic instability in the magnetosphere as a cause for electric field, 21.12–316
Liu, Fong Yih
Agriculture use of water in Taiwan, Republic of China, 21.10–558
Liu, J. Y.
Effects of precipitation on the dynamics of cumulus clouds initiated over mountains: a numerical experiment (*with* **Orville, H. D.**), 21.1–587
Numerical modeling of precipitation and cloud shadow effects on mountain-induced cumuli (*with* **Orville, H. D.**), 21.4–275
Liu, V. C.
Ionospheric gas dynamics of satellites and diagnostic probes, 21.3–215
Oscillations of electrostatically trapped particles (*with* **Hung, R. J.**), 21.7–193
Liu, Yen Huai
Geographical distribution, seasonal frequency and precipitation of the thunderstorm in Taiwan, 21.11–275
Livanova, N. A.
Ob uchete vliianiia vovlecheniia na raspredelenie temperatury i vlazhnosti v kuchevodozhdevom oblake [Estimating the effect of entrainment on the distribution of temperature and humidity in a cumulonimbus cloud], 21.7–568
Livchak, I. F., *see* **Khotsianov, L. K.**, 21.1–298
Livingston, T. L., *see* **Tary, J. J.**, 21.10–577
Livingston, W. C.
Observational evidence for quantization in photospheric magnetic flux (*with* **Harvev, J.**), 21.11–653
On the differential rotation with height in the solar atmosphere, 21.6–715
Solar rotation, 1966–1968, 21.3–733
Livshits, G. Sh.
Priblizhennyi metod vychisleniia stepeni poliarizatsii ukhodiashchego izlucheniia atmosfery v vertikale solntsa [An approximate method for calculation of the polarization degree of the atmosphere upward radiation], 21.8–593
Livshits, M. A., *see* **Badalian, O. G.**, 21.7–767; **Gel'freikh, G. B.**, 21.12–597; **Dul'kin, N. G.**, 21.11–71
Liwshitz, M., *see* **Gale, W.**, 21.9–500
Llamas, Jose
Runs of precipitation series (*with* **Siddiqui, M. M.**), 21.7–588
Llamas, M. R.
Combined use of surface and ground water for the water supply to Barcelona, Spain, 21.6–767
Llaverias, Rita K.
Remote sensing of earth resources for hydrological applications 1960–1967: working bibliography of selected references, 21.1–768
Llewellyn, E. J., *see* **Evans, W. F. J.**, 21.5–457
Llewellyn-Jones, D. T., *see* **Pearson, J. E.**, 21.3–641
Lliboutry, Louis A.
A contribution to the theory of glacier surges, 21.11–748
Lloyd, D. T.
W.R.E. visibility meter (*with others*), 21.11–104

- **Lloyd, K. H.**
  - Absorption of a grazing ray calculated by ray tracing, 21.10–273
  - Numerical solution for diffusing, reacting chemical releases, with applications, 21.12–211
- **Lo Bascio, A.**
  - Risultati ottenuti dallo studio della deviazione apparente della verticale alla stazione di Napoli [Results from the study of the apparent deviation of the vertical at the Naples Station (*with* **Quagliariello, M. T.**), 21.1–351
- **Lobemeyer, P.**, *see* **Hinzpeter, H.**, 21.6–195
- **Locatelli, J. D.**, *see* **Hobbs, P. V.**, 21.6–570; 21.7–552
- **Loch, B. F.**
  - K voprosu otozhdestvleniia nabliudeniĭ na seti pelengovaniia atmosferikov [The problem of identifying observations of atmospherics by a pelengation network], 21.7–723
  - Tiratronnyĭ priemnik grozoregistratora [Tyratron receiver for thunderstorm recording], 21.7–66
- **Lock, G. S. H.**
  - On the use of asymptotic solutions to plane ice-water problems, 21.3–746
- **Locke, J. L.**
  - Very long baseline interferometry, 21.4–438
- **Lockey, G. W. A.**
  - Satellite measurement of upper atmospheric molecular oxygen densities (*with* **Horton, B. H.** and **Rofe, B.**), 21.4–54
- **Lockwood, D. R.**
  - A temperature–salinity–depth recorder with an acoustic link, 21.12–742
- **Lockwood, G. E. K.**, *see* **Petrie, L. E.**, 21.10–178
- **Lockwood, J. A.**
  - Cosmic-ray intensity variations on Jan. 26–27, 1968 (*with* **Webber, W. R.**), 21.7–414
- **Lodge, James P., Jr.**
  - Atmospheric scientist views environmental pollution, 21.5–265
  - The smoke of London: two prophecies, 21.10–142
  - *See also* **Mohnen, V. A.**, 21.12–504; **Wartburg, Arthur F.**, 21.7–64
- **Lodge-Osborn, D.**, *see* **Kreielsheimer, K. S.**, 21.11–105
- **Loeb, Leonard B.**
  - Nature and properties of gaseous ions encountered in atmospheric studies, 21.2–355
- **Loeffler, W.**
  - Vom Wesen der Klimatherapie [The essence of climate therapy], 21.8–549
- **Loeltz, O. J.**
  - Water-manometer-air-line assembly for determining depth to water in wells, 21.10–691
- **Loewe, F.**
  - Further note on the sea water temperatures at Macquarie Island, 21.4–182
- **Loewe, Fritz**
  - More on improbable pressure extreme, 21.6–473
  - On the coreless winter of the polar regions, 21.11–306
- **Lofgren, B. E.**
  - Land subsidence due to groundwater withdrawal, Tulare–Wasco area, California (*with* **Klausing, R. L.**), 21.10–434
- **Lofgren, G. Robert**
  - Polarization and vertical velocities of dot angel echoes (*with* **Battan, L. J.**), 21.5–60
- **Loginov, V. F.**
  - O prirode poluvekobogo tsikla v troposfere [Nature of semi-secular cycle in the troposphere], 21.5–390
  - Osobennosti proiavleniia vekovogo tsikla solnechnoĭ aktivnosti v troposfere [Representation of the secular cycle in the troposphere], 21.9–412
  - *See also* **Drozdov, O. A.**, 21.9–411
- **Loginova, N. N.**, *see* **Epifanov, V. F.**, 21.6–793
- **Logunov, V. F.**, *see* **Gorelik, A. G.**, 21.3–84
- **Logvinov, K. T.**
  - O raspredelenii plotnosti vozdukha v stratosfere [Air density distribution in the stratosphere], 21.11–154
  - Raspredelenie plotnosti vozdukha nad Tikhim okeanom [The air density distribution over the Pacific], 21.9–114
- **Loisy, R.**
  - La prévision du temps à Madagascar [Weather forecasting in Madagascar], 21.12–126
- **Loitière, B.**, *see* **Pontikis, C.**, 21.7–23
- **Lojko, M. S.**, *see* **Kuhn, P. M.**, 21.5–549
- **Loken, O. H.**
  - Evidence of surges of the Barnes Ice Cap, Baffin Island, 21.10–774
- **Lomas, J.**
  - Mobile surveys in agrotopoclimatology (*with* **Shashoua, Y.** and **Cohen, A.**), 21.5–482

The performance of three types of leaf-wetness recorders (*with* **Shashoua, Y.**), 21.12–96

Lominadze, V. P., *see* **Beritashvili, B. Sh.**, 21.10–371

Lomonosov, E. G.

Opredelenie zon turbulentnosti v iasnom nebe s pomoshch'iu EVM [Determination of clear air turbulence zones by means of electronic computers] (*with* **Lunin, Iu. N.**), 21.4–198

London, J.

A discussion of the structure and energy budget of the upper atmosphere, 21.8–154

London, Michael P.

Everybody's still trying to bell the cat, 21.12–472

Long, A., *see* **Keys, J.**, 21.4–787

Long, I. F., *see* **Szeicz, G.**, 21.5–569

Long, Robert R.

Vertical velocities in clear-air turbulence, 21.10–82R

See also **Moore, Michael J.**, 21.11–767

Longhetto, Arnaldo

Studio sulla previsione della temperatura minima notturna a Trino Vercellese [Study of forecasting of minimum night temperature at Trino Vercellese] (*with* **Pagliari, M.**), 21.11–127

Longinelli, A., *see* **Cortecci, G.**, 21.10–383

Longley, Richmond W.

Diurnal pressure wave in western Canada, 21.3–579

Diurnal variation of wind direction at Calgary: further comments, 21.1–510

Elements of meteorology, 21.12–19

Research on urban pollution at the University of Alberta, 21.5–266

Longuet-Higgins, M. S.

Fluctuating ocean currents, 21.12–10R

Lonnquist, Carl G., *see* **Schickedanz, P. T.**, 21.5–639

Lonsdale, H. K.

Desalting by reverse osmosis (*with* **Merten, U.**), 21.8–837

Loomis, Harold G., *see* **Hansen, Richard T.**, 21.9–551

Loomis, S., *see* **Ewing, K.**, 21.10–253

Loosli, H. H.

^{37}Ar and ^{81}Kr in the atmosphere (*with* **Oeschger, H.**), 21.8–213

Lopatina, G. B., *see* **Khorosheva, O. V.**, 21.7–373

Lopatukhin, L. I.

Opyt rascheta veroiatnostnykh kharakteristik shtormovogo volneniia v zone transformatsii [Calculation of the probability characteristics of a storm wave in the transformation zone], 21.11–776

Lorenc, Halina

O porywistości wiatru w Warszawie [On wind gustiness in Warsaw], 21.4–194

Lorenz, Dieter

Flugzeugmessungen der Bodenoberflächentemperatur am Hohenpeissenberg und in seiner Umgebung [Aircraft measurements of the surface temperature of the ground undertaken at Hohenpeissenberg and its neighborhood], 21.7–456

Flugzugmessungen der Wasseroberflächentemperatur von Binnenseen [Aircraft measurements of the water surface temperature of inland lakes], 21.5–496

Lorenz, Edward N.

Atmospheric predictability as revealed by naturally occurring analogues, 21.1–247

How much better can weather prediction become?, 21.4–27

Predictability of a flow which possesses many scales of motion, 21.5–167

Progress report on atmospheric predictability, 21.8–113

Three approaches to atmospheric predictability, 21.2–32

Lorius, C.

Variation in the mean deuterium content of precipitations in Antarctica (*with* **Merlivat, L.** and **Hagemann, R.**), 21.8–427

Lortie, J.

Computer evaluation of total ozone observations, 21.5–330

Losavich, Jeanne L.

Timing of the apparent effects of cloud seeding (*with others*), 21.5–207

Losovskiĭ, B. Ia.

Observations of the polarization of lunar radio radiation at the wavelength of 0.8 cm with high resolving power [Transl. from Russian], 21.4–459

Lotmar, Ruth

Eine neue Feldmethode zur Bestimmung der UV-Strahlung von Sonne und Himmel [A new field method for determining UV radiation from the Sun and sky] (*with* **Ruest, E.**), 21.7–48

Lotova, N. A.

O melkomasshtabnykh fluktuatsiiakh magnitnogo polia mezhplanetnoĭ plazmy [Small-scale fluctuations of the magnetic field of the interplanetary plasma] [and English transl.], 21.3–713

See also **Baĭkov, I. S.**, 21.7–764

Lotspeich, Frederick B.
  Quality of waters from playas on the Southern High Plains (*with* **Hauser, V. L.** and **Lehman, O. R.**), 21.2–611
  Water pollution in Alaska: present and future, 21.9–581
Loucks, O. L., *see* **Anderson, R. C.**, 21.3–505; **Iltis, H. H.**, 21.8–547
Loucks, Ronald H.
  Some features of chlorine and bromine in aerosols (*with* **Winchester, J. W.**), 21.12–245
Lougeay, R., *see* **Ewing, K.**, 21.10–253
Loup, Jean
  10^e Congrès de Météorologie alpine, Grenoble–Saint-Martin-d'Hères [Tenth Symposium on Alpine Meteorology, Grenoble–Saint-Martin-d'Hères], 21.1–70
  Durée de la couverture nivale sur un adret et sur un ubac dans la région d'Embrun, Hautes–Alpes [Duration of snow cover on a sunny and on a shady mountain slope in the Embrun region, Hautes–Alpes], 21.7–631
Lourence, F. J.
  Psychrometer system for micrometeorology profile determination (*with* **Pruitt, W. O.**), 21.4–332
Louw, W. J.
  Correlation of class A pan evaporation with various climatic factors in South Africa (*with* **Kruger, J. P.**), 21.5–563
Lovasich, Jeanne L.
  Wind directions aloft and effects of seeding on precipitation in the Whitetop experiment (*with others*), 21.7–123
Lovera, Giuseppe
  Sulla variazione quasi-periodica di 13 giorni nell'intensità della radiazione cosmica [Variation in cosmic radiation intensity for a 13-day period, 1938–1954], 21.2–167
Lovill, James E.
  Structure of gravity waves as determined simultaneously by ozone, 21.10–223
  Transport processes in orographically induced gravity waves as indicated by atmospheric ozone, 21.1–545
Lovseth, Knut, *see* **Nydal, Reidar**, 21.12–336
Low, F. J., *see* **Gillett, F. C.**, 21.11–582
Low, Richard D. H.
  Comprehensive report on nineteen condensation nuclei, Pt. 1, Equilibrium growth and physical properties, 21.8–356
Low, William, *see* **Cohen, Ariel**, 21.7–710
Lowe, R. P.
  Interferometric spectra of the Earth's airglow (1.2 to 1.6 um), 21.7–357
Lowery, M. D.
  Comparison of methods of fitting the double exponential distribution (*with* **Nash, G. E.**), 21.12–659
Lowke, J. J.
  Toward a theory of ball lightning (*with* **Uman, M. A.** and **Liebermann, R. W.**), 21.8–645
Lowman, Paul D., Jr.
  Lunar environment, 21.6–695
  Moon's resources, 21.3–725
Lowndes, G. A. S.
  Forecasting large 24-hour rainfall totals in the Dee and Clwyd River Authority area from March to August, 21.9–91
Lowrie, Allen
  Kane-9 (*with* **Escowitz, E.**), 21.2–699
Lowry, Dale A.
  Relationships between integrated atmospheric moisture and surface weather (*with* **Glahn, H. R.**), 21.4–252
  See also **Glahn, H. R.**, 21.5–152, –160; 21.7–95; **Hollenbaugh, G. W.**, 21.3–106
Lowry, William P.
  Environmental effects of nuclear cooling facilities, 21.8–362
  Weather and life, 21.3–682
Lozinskiĭ, Iu. A., *see* **Korobochkin, I. V.**, 21.2–28
Lozowski, E. P., *see* **List, R.**, 21.1–607; 21.6–584
Lubiako, L. V., *see* **Fedoseev, L. I.**, 21.4–458
Lubnin, M. G.
  Issledovanie vliianiia meteorologicheskikh usloviĭ na kachestvo raboty i proizvoditel' nost' zernouborochnogo kombaĭna CK-4 [Investigation of the effect of meteorological conditions on work quality and productivity of the SK-4 grain harvesting combine] (*with others*), 21.9–385
Lucas, J. W.
  Lunar surface temperatures and thermal characteristics (*with others*), 21.5–699
Lucke, Otto
  Physikalische Modelle für die Turbulenz in der Atmosphäre [Physical model for atmospheric turbulence], 21.6–285
  Über die Wechselwirkung der Strahlungsströme der Atmosphäre mit ihren turbulenten Strömungen [Atmospheric radiation fluxes and their reciprocal effects

with regard to turbulent motions] (*with* **Stellmacher, R.**), 21.10–263
Zur Theorie der atmosphärischen Turbulenz [Atmospheric turbulence theory] (*with* **Pethe, H.**), 21.1–370

Lucy, R. F.
Incoherent and coherent CW laser systems for remote atmospheric probing, 21.6–12

Ludlam, F. H., *see* **McIlveen, J. F. R.**, 21.5–128

Ludlum, David M.
The Espy–Redfield dispute, 21.8–228
Hundred years of Boston snowstorms, 21.1–624
The snowfall season of 1968–1969, 21.9–242R

Ludwig, C. B.
Study of air pollutant detection by remote sensors (*with* **Bartle, R.** and **Griggs, M.**), 21.5–267

Ludwig, F. L.
Condensation nuclei and aerosol populations related to fog formation (*with* **Robinson, E.**), 21.11–376

Ludwig, R. S., *see* **Hovey, R. L.**, 21.12–175

Ludwigson, John O.
Chesapeake Bay, 21.4–788

Lue, T., *see* **Armstrong, R. J.**, 21.6–217

Luebs, R. E.
Evapotranspiration and water stress of barley with increased nitrogen (*with* **Laag, A. E.**), 21.8–697

Luft, Ulrich C.
Effects of altitude climates on human performance, a review, 21.2–313

Luftkin, Daniel H.
Meteorological considerations in selecting haze filters for reconnaissance, 21.2–345

Lugina, K. M., *see* **Gandin, L. S.**, 21.3–293; 21.6–147

Lukáč, Ján
Ameny spektrálneho jasu oblohy [Variations of the spectral luminance of the sky], 21.10–276
See also **Foitzik, Leonhard**, 21.12–423

Lukachev, V. V., *see* **Matusov, A. L.**, 21.7–690

Lukashenko, G. M., *see* **Uryvaev, V. A.**, 21.7–812

Lukasiewicz, Frànciszek
Kalibrovka apparatury dlia izmereniia radioaktivnosti atmosfery pri pomoshchi etalonov Sr90 + Y90 i K40 [Calibration of apparatus for measuring atmospheric radiation using Sr-90 + Y-90, and, K-40 as standards], 21.1–208

Lukiianova, L. E., *see* **Ter-Mkrtchian, M. G.**, 21.12–161

Lukin, D. S.
Refraktsiia radiovoln i napriazhennost' polia v atmosfere Venery [Refraction of radiowaves and the field potential in the atmosphere of Venus] (*with others*), 21.12–603
See also **Kazantsev, A. N.**, 21.3–154

Lukina, F. Z.
Izmenenie spektrov kolebaniĭ temperatury vozdukha pod vliianiem ograzhdaiushcheĭ konstruktsii zdaniia [Change in the spectra of oscillations in air temperature under the influence of the protective structure of a building], 21.5–670
Spektr kolebaniĭ temperatury vozdukha po dannym meteorologicheskikh nabliudeniĭ [The spectrum of air temperature fluctuations according to meteorological observation data], 21.6–439

Łukomski, Hieronim
Niewidoczne chmury [Invisible clouds], 21.7–561

Lull, Howard W.
Important watershed characteristics affecting water yield, flood peaks and erosion and sedimentation and the basic data needed for prediction (*with* **Anderson, H. W.**), 21.8–797

Lum, K., *see* **Macpherson, J. I.**, 21.11–66; 21.12–62

Lumb, Alan Mark
Hydrologic effects of rainfall augmentation, 21.10–128

Lumb, F. E.
Probable maximum precipitation (PMP) in East Africa for durations up to 24 hours, 21.10–387

Lumme, T., *see* **Riissanen, J.**, 21.9–77

Luna, R. E.
DIFOUT: a model for computation of aerosol transport and diffusion in the atmosphere (*with* **Church, H. W.**), 21.10–329
Turbulence data for use in hazard analyses, 21.1–493

Lundbak, Asger N.
Ionospheric research using satellites, Sept. 1, 1966–Aug. 31, 1967. Denmark (*with* **Mikkelsen, I. S.**), 21.11–199

Lunden, C. D.
On-board radar CAT detection (*with* **Buehler, W. E.**), 21.10–326

Lunin, Iu. N., *see* **Lomonosov, E. G.**, 21.4–198

Lusignan, B. B.
Density measurement with radio wave occultation techniques, 21.7–20
Lusignan, Bruce (ed.)
Global weather prediction: the coming revolution (*with* **Keily, J.**), 21.12–20
Sensing Earth's atmosphere with occultation satellites (*with others*), 21.1–152
Lutz, David, *see* **Shleien, B.,** 21.4–84
Lux, Herbert
Die Luftanalyse in der forstlichen Rauchschadendiagnostik [Air analysis in the diagnosis of smoke damage in forests], 21.6–177
Luzhnaia, N. P., *see* **Chernova, V. F.,** 21.1–217
Luzov, A. A., *see* **Dorman, L. I.,** 21.10–294; 21.12–428
L'vova, E. V.
Gidrogeologicheskie usloviia Tarkhankutskogo karstovogo raiona v Krymu [Hydrogeological conditions of the Tarkhankutsk karst region in the Crimea], 21.11–701
L'vovich, M. I.
Kompleksnye printsipy ispol'zovaniia i okhrany vodnykh resursov [Complex principles in using and conserving water resources], 21.11–696
Metod kompleksnogo izucheniia vodnogo balansa territorii [Complex method of investigating the water balance of the U.S.S.R.], 21.11–360
Metody otsenki preobrazovaniĭ vodnogo balansa [Method of evaluating water balance transformation], 21.11–361
Prognoz vodnogo balansa basseĭna Dona [Forecasting the Don basin water balance], 21.11–685
Water of the world and its future, 21.11–101R
Zonal'nye zakonomernosti vodnogo balansa [Zonal regularities of water balance], 21.11–362
Lyall, I. T.
Heat-wave of July 1, 1968 in East Anglia, 21.4–102
Lyford, Forest P.
Infiltration rates as affected by desert vegetation (*with* **Qashu, H. K.**), 21.7–655
Lynden-Bell, Donald, *see* **Goldreich, P.,** 21.2–430
Lynn, K. J. W.
The interpretation of transequatorial v.l.f. sunrise observations, 21.7–194
Lysenko, I. A.
Rezul'taty issledovaniia tsirkuliatsii atmosfery nad Evrazieĭ i Arktikoĭ metodom radiolokatsii meteornykh sledov [Results of studies of atmospheric circulation over Europe, Asia and the Arctic by radar–meteor technique] (*with others*) [and English transl.], 21.6–512
Lysenko, K. A., *see* **Drozd, N. I.,** 21.4–581
Lyttleton, R. A.
Origin of the Moon, 21.2–436

M

McAlister, E. D.
Heat transfer in the top millimeter of the Ocean (*with* **McLeish, W.**), 21.3–783
McAllister, C. R.
Cloud-cover recurrence and diurnal variation, 21.5–605
McAllister, L. G.
Acoustic sounding of the lower atmosphere (*with* **Pollard, J. R.**), 21.11–30
Macan, William A., III
Electrical sensors of temperature, 21.10–72
McAndrew, Donald W., *see* **Federal–State–Private Cooperative Snow Surveys,** 21.1–627
Macao. Serviço Meteorológico
Resultados das Observações Meteorológicas de Macau, Vol. 18, No. 5–6, Maio–Junho 1969 [Results of meteorological observations at Macao, Vol. 18, No. 5–6, May–June 1969], 21.10–105R
MacArthur, C. A., *see* **Beveridge, G. S. G.,** 21.12–229
McBride, Michael F., *see* **Maynard, H. W.,** 21.3–606; 21.12–25
McCaa, David J.
Emission spectra of atmospheric gases excited by an electron beam (*with* **Rothe, D. E.**), 21.4–42
McCallum, F., *see* **Beamish, J. E.,** 21.6–760
McCann, S. B., *see* **Owens, E. H.,** 21.10–773
McCarren, Edward F.
Water quality and discharge of streams in the Lehigh River Basin, Pennsylvania (*with* **Keighton, W. B.**), 21.10–746
McCaslin, Robert J.
Radar reporting of tropical cyclones, 21.1–405
McCladin, R. O.
Atmospheric aerosols (*with* **Johnson, L. W.** and **Stephens, N. T.**), 21.5–270

McClain, E. Paul
Applications of environmental satellite data to oceanography and hydrology, 21.11–82
Experimental large-scale snow and ice mapping with composite minimum brightness charts (*with* **Baker, D. R.**), 21.5–98
See also **Brodrick, H. J.**, 21.3–459; **Strong, A. E.**, 21.4–740

McClatchey, Robert A.
Spectrometric measurement of the atmospheric temperature above 30 km near sunrise (*with* **Shaw, J. H.**), 21.4–176

McClelland, James M.
Techniques for forecasting low water occurrences at Baltimore and Norfolk, 21.12–802

Maclennan, C. G., *see* **Lanzerotti, L. J.**, 21.4–153

McColl, J. G.
Soil–plant relationships in a Eucalyptus forest on the south coast of New South Wales, 21.12–558

McConkey, John W.
Absolute transition probability measurement for the electric quadrupole, 5577 A auroral green line (*with* **Kernahan, J. A.**), 21.11–533

McCord, Thomas B.
Comparison of the reflectivity and color of bright and dark regions on the surface of Mars, 21.2–446
See also **Adams, John B.**, 21.9–512

McCormac, Billy M.
Consequences of very small planetary magnetic moments (*with* **Evans, J. E.**), 21.5–227
[Discussion of] **J. H. Crary** and **A. H. Diede**: Early detection at low latitudes of a polar cap event by its effect on VLF propagation, 21.8–190
See also **NATO Advanced Study Institute, Agricultural College of Norway, 1968**, 21.7–358

McCormick, K. S., *see* **Strickland, J. I.**, 21.9–300

McCormick, Paul D.
Fluorescence as a source of noise in Q-switched ruby laser atmospheric backscattering experiments, 21.7–56

McCormick, Robert A.
Meteorology and urban air pollution, 21.7–146
See also **Flowers, E. C.**, 21.5–677

McCoy, F. W., Jr.
Bottom currents in the western Atlantic Ocean between the Lesser Antilles and the Mid-Atlantic Ridge, 21.1–743

McCoy, Roger M.
Drainage network analysis with K-band radar imagery, 21.6–777

McCray, Richard
Synchrotron radiation losses in self-absorbed radio sources, 21.2–432

MacCready, P. B., Jr., *see* **Weinstein, A. I.**, 21.5–212

McCulloch, J. S. G.
Instrumentation in hydrology (*with* **Strangeways, I. C.**), 21.9–67

McCutchan, J. W.
Scale control in saline water evaporators: a review of current status (*with* **Sieder, E. N.**), 21.1–730

McDiarmid, I. B.
Dawn–dusk asymmetries in the outer radiation zone at magnetically quiet times (*with* **Burrows, J. R.** and **Wilson, M. D.**), 21.7–376
See also **Whalen, B. A.**, 21.6–419; 21.10–524

McDonald, F. B.
IQSY observations of low-energy galactic and solar cosmic rays, 21.10–298
See also **Kinsey, J. H.**, 21.2–147; **Simnett, G. M.**, 21.8–308

MacDonald, Gordon, J. F.
Die Veränderung der Erde durch den Menschen [Modification of the Earth by man], 21.3–559
Modification of planet Earth by man, 21.11–152
See also **Uray, Harold C.**, 21.10–603

Macdonald, Norman J.
Estimating the motion and mechanics of a planetary atmosphere, 21.3–433
Note on the seasonal variation of the flux of angular momentum by the transient and standing eddies in the northern hemisphere (*with* **Frazier, H. M.**), 21.10–239

MacDonald, William M., *see* **Walt, Martin**, 21.7–386

McDonell, James E.
Evaluation of forecasts of wind, temperature and tropopause pressure obtained by numerical methods (*with* **Newell, J. E.**), 21.1–223

McDonnell, J. A. M., *see* **Jennison, R. C.**, 21.12–613

McDonough, T. R., *see* **Gulkis, S.**, 21.5–694

Mace, Arnett C., Jr.
  Modifications and evaluations of the evapotranspiration tent (*with* **Thompson, J. R.**, 21.9–280
Mace, Lee M., *see* **Smigielski, Frank J.**, 21.12–42
McElroy, Michael B.
  Atmospheric composition of the Jovian planets, 21.5–710
  Molecular hydrogen in the atmosphere of Mars (*with* **Hunten, D. M.**), 21.10–620
  See also **Dalgarno, A.**, 21.1–446; **Henry, R. J. W.**, 21.6–709
Macerata, Italy. Osservatorio Meteorologico
  Osservazioni Meteorologiche, 1968 [Meteorological observations, 1968], 21.1–134
McGauhey, P. H.
  Living with our wastes, 21.1–301
McGee, M., *see* **Harri, J.**, 21.2–165
McGilchrist, C. A., *see* **Huxham, S. H.**, 21.7–780
McGillivray, Terrence L., *see* **Yen, Ben Chie**, 21.12–701
McGinnies, W. G. (ed.)
  Deserts of the world (*with* **Goldman, B. J.** and **Taylore, P.**), 21.3–680
McGinnigle, J. B.
  Note on observed dust whirl damage at Nicosia, Cyprus, 21.10–251
McGovern, W. E.
  Albedo measurements over the Antarctic (*with* **Rasool, S. I.**), 21.6–363
  Primitive Earth: thermal models of the upper atmosphere for a methane-dominated environment, 21.1–281
McGreevy, Gerard
  Charging and discharging of aerosols, 21.12–588
  Plasma-like properties of an aerosol of condensation nuclei, 21.10–365
McGreevy, Laurence J.
  Groundwater resources of the Wind River Indian Reservation, Wyoming (*with* **Hodson, W. G.** and **Rucker, S. J., IV**), 21.2–556
MacGregor, G. R., *see* **Pao, Y. H.**, 21.4–195
McGuinness, J. L., *see* **Mustonen, S. E.**, 21.1–555
Machenhauer, Bennert, *see* **Eliasen, E.**, 21.5–396
Machida, E., *see* **Gambo, K.**, 21.3–637
Machta, L.
  Evaporation rates based on tritium measurements for hurricane Betsy, 21.4–258
  Meteorological observations from the Rockwell Polar Flight (*with others*), 21.5–82
  Slope of surfaces of maximum tracer concentration in the lower stratosphere (*with others*), 21.12–345
  Strontium-90 fallout over Lake Michigan (*with* **Telegadas, K.**), 21.10–213
  Winds, pollution, and the wilderness, 21.9–127
McIlveen, J. F. R.
  Lag of the humidity sensor in the British radiosonde (*with* **Ludlam, F. H.**), 21.5–128
McIlwain, C. E.
  Comments and speculation concerning the radiation belts, 21.10–284
McIntire, W. G., *see* **Coleman, James M.**, 21.9–652
McIntosh, B. A.
  Effect of wind shear on the decay constant of meteor echoes, 21.5–695
  Meteor mass distribution from radar observations, 21.10–638
  See also **Simek, M.**, 21.11–612
McIntosh, D. H.
  Essentials of meteorology (*with* **Thom, A. S.**), 21.6–3
McIntosh, P. S., *see* **Wilson, P. R.**, 21.8–769
McIntyre, Michael E.
  On stationary topography-induced Rossby-wave patterns in a barotropic zonal current, 21.5–540
McKay, G. A.
  Estimating the hazard of ice accretion in Canada from climatological data (*with* **Thompson, H. A.**), 21.5–589
  Estimation of snow cover water equivalent from climatological data, 21.7–641
Mackay, G. H.
  Wilson Creek experimental watershed, 21.9–650
MacKay, Kenneth H., *see* **Williams, G. Daniel V.**, 21.12–449
McKean, Robert G., *see* **Starr, V. P.**, 21.6–535
McKee, Chester, *see* **Colgate, Stirling A.**, 21.7–726
McKee, Thomas B.
  Technique to infer atmospheric water–vapor mixing ratio from measured horizon radiance profiles (*with* **Whitman, R. I.** and **Lambiotte, J. J., Jr.**), 21.4–253
McKellar, H. A.
  Success of clean air as seen by a meteorologist, 21.12–246

MacKellar, J. C., *see* **Donnelly, J.**, 21.11–303

McKenna, Susan M. P.
  Occurrence of high-energy releases during flares in localized areas of an active center and time-associated changes in spot umbrae, 21.6–726

McKennan, J. R., *see* **Roach, F. E.**, 21.9–218

Mackermas, D.
  Photoelectric techniques for investigating discharge processes in lightning flashes, 21.8–628

MacKinnon, R. F.
  Microbarographic oscillations produced by nuclear explosions as recorded in Great Britain and Eire, 21.1–472
  Vertical energy flux in a wind and temperature stratified atmosphere, 21.4–86
  Wave propagation in a stratified atmosphere, 21.6–507

Macklin, W. C.
  Collection efficiencies of hailstones (*with* **Bailey, I. H.**), 21.1–641
  Interpretation of the growth rates of ice dendrites in supercooled water (*with* **Ryan, B. F.**), 21.6–558
  See also **Bailey, I. H.**, 21.1–638, –640; **Ryan, B. F.**, 21.12–542

McLain, D. Kenneth, *see* **Uman, Martin A.**, 21.8–639, –640

McLaren, W. A.
  Study of the local ice cap near Wilkes, Antarctica, 21.1–762

McLean, George
  Bibliography of AFCL reports on meteorological equipment (*with* **Carchia, M.**), 21.10–66R

MacLean, M. A., *see* **Franklin, C. A.**, 21.10–60

McLeish, William, *see* **McAlister, E. D.**, 21.3–783

McLellan, Alden, IV
  Acoustic magneto-gravity waves, 21.6–727
  Velocity gradients in internal acoustic gravity waves, 21.6–280

MacLeod, M. A.
  E-region vertical neutral winds, 21.11–200

McLernon, J. S.
  Measurement of vertical temperature differences, 21.4–158

McMahon, J. W.
  Acid-free bathophenanthroline method for measuring dissolved ferrous iron in lake water, 21.10–675

McMillin, Larry M., *see* **Warnecke, Guenter**, 21.8–51

McMullen, C. C., *see* **Schwarcz, H. P.**, 21.4–687

McNally, Gerard J.
  Thrust anemometer for the measurement of the turbulent wind vector, 21.11–92

McNamara, A. G.
  Rocket measurements of plasma densities and temperatures in visual aurora, 21.9–447

McNeal, R. J.
  Ionization and excitation of nitrogen by protons and hydrogen atoms in the energy range 1–25 keV (*with* **Clark, D. C.**), 21.11–534

MacNeil, C. F., *see* **Jarvis, E. C.**, 21.4–28

McNellis, Jesse M., *see* **Morgan, C. O.**, 21.3–740
  See also **Ropes, L. H.**, 21.3–742

McNutt, D. P., *see* **Feldman, P. D.**, 21.3–519

MacPhee, Robert D., *see* **Shikiya, James M.**, 21.10–89

MacPhee, Walter Thomas
  Water for Saigon, Viet Nam (*with* **Nguyen, H. T.**), 21.6–764

McPherson, G. A.
  Meaning and application of advection fields in analysis and forecasting, 21.11–110

McPherson, H. J.
  Geomorphic effects of the May 1967 flood in Graburn Watershed, Cypress Hills, Alberta, Canada (*with* **Rannie, W. F.**), 21.8–466

Macpherson, J. I.
  Instrumentation of an RB-57F to measure high-altitude turbulence encounters (*with* **Lum, K.**), 21.11–66; 21.12–62

McPherson, Ronald D., *see* **Gerrity, J. P., Jr.**, 21.3–232; 21.12–131

McQuate, P. L.
  Propagation measurements on two line-of-sight paths in Germany (*with* **Samson, C. A.**), 21.5–307

McQuate, P. L., *see* **Hause, L. G.**, 21.10–567

MacQueen, Robert M., *see* **Eddy, J. A.**, 21.3–510; 21.4–138; 21.8–751

McQuigg, James D., *see* **Johnson, S. R.**, 21.5–470

Macris, C. J.
  Lifetime of the dark and bright mottles of the solar chromosphere (*with* **Alissandrakis, C. E.**), 21.10–662
  Study of an active region of the Sun during three rotation periods (*with* **Prokakis, T. J.**), 21.2–463

  See also **Anastassiades, Michael**, 21.10–581

McTaggart-Cowan, J. D.
  Design, construction, and use of an ice crystal counter for ice crystal cloud studies by aircraft (*with others*), 21.11–98

McVehil, G. E.
  Ground wind characteristics at Kennedy Space Center (*with* **Camnitz, H. G.**), 21.3–589
  See also **Fichtl, G. H.**, 21.6–479; 21.11–234

McWilliams, S.
  Concentration of atmospheric condensation nuclei at Valentia Observatory, 21.7–553

Madden, R. A.
  Comparison of the equivalent potential temperature and the static energy (*with* **Robitaille, F. E.**), 21.8–216
  Multi-layered structure of the wind over the equatorial Pacific during the Line Islands experiment (*with* **Zipser, E. J.**), 21.10–345

Madden, T. R.
  Jet stream associated gravity waves and implications concerning jet stream stability (*with* **Claerbout, J. F.**), 21.5–522
  See also **Claerbout, J. F.**, 21.7–510

Madelaine, Guy J.
  Influence of liquid conductivity on latex aerosol charge, 21.12–589
  See also **Bricard, J.**, 21.7–551; 21.9–430; 21.12–235

Mäckle, R.
  On the energy dissipation of fast hydromagnetic shock waves in the solar chromosphere, 21.9–546

Maeda, Hiroshi, *see* **Maeda, Ken Ichi**, 21.12–280

Maeda, Kaichi
  Polar upper atmosphere and aurora (*with* **Ishikawa, G.**), 21.3–352

Maeda, Ken Ichi
  Stratosphere–ionosphere coupling (*with* **Maeda, H.**), 21.12–280
  See also **Internatl. Council of Scientific Unions. Comm. on Space Research, 11th Plenary Meeting, Tokyo, May 17–18, 1968**, 21.5–90

Mäde, A.
  Die Entwicklung der Agrarmeteorologie in der DDR [Development of agrometeorology in the German Democratic Republic], 21.10–6

Maede, Hans
  Über einen Zusammenhang zwischen den Phasen der stratosphärischen äquatorialen Windperiode und der Erhaltungsneigung der troposphärischen Westdrift über Mitteleuropa [Relationship between the phases of the equatorial stratospheric wind period and persistency of the tropospheric westerlies over Central Europe], 21.10–343

Maeder, F.
  Untersuchung ueber die Windverhaeltnisse in Bodennähe bei verschiedenen Witterungslagen] Study of wind conditions near the ground in various weather situations], 21.3–605

Mädlow, E.
  21 months of regular electrochemical ozone soundings over Berlin, Germany, 21.6–213

Maejima, Ikuo
  Hydro-climatological features of the Tone River Basin, Central Japan, 21.10–96R
  Natural seasons and weather singularities in Japan, 21.10–97R

Maenhout, A.
  Ontwikkeling van het Koninklijk Meteorologisch Instituut van België sinds 1944 [Development of the Royal Meteorological Institute of Belgium since 1944], 21.5–15

Maenhout, A. G.
  Note sur le régime des vents dans l'atmosphère libre à Uccle [Note on the wind regime in the free atmosphere over Uccle], 21.1–532

Magarik, V. A., *see* **Bogdanov, K. T.**, 21.9–746

Magata, Mitsuo
  On the study of the airflow over mountains by the numerical experiment, 21.5–541; 21.7–517

Magiricu, Victoria
  Determinări de ozon în stratul de aer de lîngă sol [Interface ozone measurements] (*with* **Baiulescu, Gh.** and **Popescu, D.**), 21.3–37

Magnell, Bruce Arthur
  Measurement of deep ocean currents with one-shot neutrally buoyant floats, 21.4–727

Magnier, Yves, *see* **Hisard, P.**, 21.2–755

Magno, P. J.
  Lead-210 in air and total diets in the United States during 1966 (*with others*), 21.12–335

Magnuson, John J.
  Siphon water sampler for use through the ice (*with* **Stuntz, W. E.**), 21.10–687
Magono, Choji
  Clouds over the Pacific Ocean, Pt. 4 (*with* **Kikuchi, K.** and **Kasai, T.**), 21.4–271
  Experimental studies on snow crystals of plane type and spatial branches (*with* **Aburakawa, H.**), 21.2–267
  See also **Shio, Hisashi**, 21.9–666
Maguire, J. J., *see* **Freeman, J. W., Jr.**, 21.7–367
Mahajan, K. K.
  Latitudinal observations of the thermal balance in the nighttime protonosphere (*with* **Brace, L. H.**), 21.4–172
  See also **Mayr, H. G.**, 21.6–236
Mahdavi, H.
  Summary of water resources development in Iran, 21.7–790
Mahlman, J. D.
  Eddy transfer processes in the stratosphere during major and "minor" breakdowns of the polar night vortex, 21.11–247
  Energetics of a "minor breakdown" of the stratospheric polar night vortex, 21.5–401
  Heat balance and mean meridional circulations in the polar stratosphere during the sudden warming of January 1958, 21.3–353
  Long-term dependence of surface fall-out fluctuations upon tropopause-level cyclogenesis, 21.6–260
Mahringer, Werner
  Der Strahlungshaushalt des Neusiedler Sees im Jahre 1967 [The radiation balance of Lake Neusiedl in 1967], 21.4–130
Maier, E. J. R., *see* **Rao, B. C. Narasinga**, 21.7–212
Maierhofer, Charles R.
  Importance of drainage in irrigation development, 21.10–554
Maine, R.
  Real time experiment in operational meteorological data processing, 21.3–224
  Real-time interactive control system for meteorological operations, 21.5–63
Maisel, T. N., *see* **Landsberg, H. E.**, 21.12–444
Major, György
  A számított sugárzási egyenleg területi eloszlása Magyarországon [Areal distribution of calculated values of the radiation balance in Hungary] (*with* **Tárkányi, Z.**), 21.3–500
Majumdar, K. C.
  Determination of the optimum storage capacity of reservoirs and the associated probabilities, 21.4–596
Makammal, E. I.
  Air pollutants, meteorology and plant injury (*with others*), 21.5–275
Makarenko, N. L.
  Some discrepancies in the results of meridian observations of apparent lunar diameters [Transl. from Russian], 21.4–480
Makarevich, K. G.
  K voprosu ob izuchenii gliatsial'nykh seleĭ [The problem of glacial flow studies], 21.7–824
Makarevich, T. N.
  Vskrytie rek severnogo kraia i metodika ego dolgosrochnogo prognoza [Breakup of ice in rivers in the northern regions and methods of long-range forecasting], 21.12–662
Makarov, V. I.
  Vliianie mestnogo tepla na kharakter otvetnykh fiziologicheskikh reaktsiĭ i vozmozhnost' ego ispol'zovaniia pri sozdanii zimneĭ odezhdy s obogrevom [Effect of local heat on the character of physiological response reactions and its possible use in producing heated winter clothing] (*with* **Bavro, G. V.** and **Koshcheev, V. S.**), 21.8–311
Makarova, E., *see* **Delone, A. B.**, 21.9–549
Makarova, E. A.
  Srednie dannye ob absoliutnom raspredelenii energii v spektre solntsa v oblasti ot 1800 Å do 4 mm [Mean data on the absolute energy distribution in the solar spectrum in the region from 1800 Å to 4 mm] (*with* **Kharitonov, A. V.**) [and English transl.], 21.2–505
Makarova, T. A., *see* **Mikhaĭlov, V. N.**, 21.1–775
Makarova, T. T., *see* **Komarov, V. D.**, 21.2–536
Makerov, Iu. V.
  Hydrology of Kuroshio and adjacent regions of the Pacific Ocean, 21.9–55
  See also **Tauber, G. M.**, 21.12–56
Makhan'kov, V. G.
  Rasseianie elektromagnitnykh voln na gidrodinamicheskikh pul'satsiiakh turbulentnoĭ plazmy [Scattering of an electro-

magnetic wave on hydrodynamic pulsation of turbulent plasma] (*with* **Sakhokiia, D. M.** and **Tsytovich, V. N.**) [and English transl.], 21.5–359

Makhumdov, B. M.
Ob izmerenii pogloshchennykh doz radiatsii pri poletakh kosmicheskikh korableĭ [Measurement of absorbed radiation doses in manned cosmic space flights] [and English transl.], 21.6–408

Makhon’ko K. P., *see* **Avramenko, A. S.**, 21.8–426

Makhotkin, L. G.
Ispol’zovanie atmosferikov dlia polucheniia geofizicheskoi informatsii [Using atmospherice to obtain geophysical information] (*with* **In’kov, B. K.**), 21.8–29
O raspredelenii intervalov mezhdu impul’sami atmosfernykh pomekh [Interval distribution between atmospheric static pulses] (*with* **In’kov, B. K.**), 21.9–458
O vozmoshnosti ispol’zovaniia parametrov ul’tranizkochastotnykh atmosferikov dlia otsenki udalennosti ikh istochnikov [The feasibility of using ultra low frequency atmospherics parameters for evaluating the distance of their sources] (*with* **In’kov, B. K.**), 21.8–31
O zavisimosti chisla prinimaemykh atmosferikov ot shiriny polosy [The relationship between the number of received atmospherics and band width] (*with* **In’kov, B. K.**), 21.9–74
Odnopuktnye metody nabliudenii za grozovymi ochagami [Single-point storm foci observation methods] (*with* **In’kov, B. K.**), 21.7–303
Sredniĭ sutochnyĭ khod gradienta potentsiala po dannym nabliudeniĭ v period MGG i MGSS [Average diurnal progression of the potential gradient from IGY and IQSY observations], 21.8–605
Veroiatnost’ vybora otmechennykh atmosferikov [The probability in the selection of recorded atmospherics] (*with* **Sidorenkova, G. A.**), 21.8–30

Makhover, Z. M.
Concerning the causes of the stable position of the center of an Asian anticyclone above Mongolia, 21.10–32R
K voprosu o kontrole i obrabotke ezhechasnoĭ meteorologicheskoĭ informatsii [Problem of the control and processing of hourly meteorological information] (*with* **Ovsiannikov, V. V.**), 21.11–54

Tropopauza nad Tikhim okeanom [Tropopause over the Pacific Ocean] (*with* **Chuprina, V. I.**), 21.2–60

Makkaveev, N. I.
Experimental paleohydrologic investigations (*with* **Kalinin, A. M.**) [Transl. from Russian], 21.3–743

Makkaveev, V. M.
Kinetika turbulentnosti ruslovykh potokov i vozdeĭstvie na nee nanosov [Kinetics of the turbulence of channel flows and the effects of deposits], 21.2–604

Makova, V. I.
Koeffitsient treniia i parametr sherokhovatosti morskoĭ poverkhnosti pri bol’shikh skorostiakh vetra [Friction coefficient and the roughness parameter on the surface of the sea at high wind velocity], 21.11–346

Maksimov, I. S.
Sily deformatsii i kratkosrochnyĭ prognoz pogody [Deformation forces and short-term forecasting], 21.7–101

Maksimov, I. V.
Indeksy vozmozhnogo vozdeĭstviia na okean i atmosferu Zemli mnogletnikh izmeneniĭ sil prilivnogo tipa [Indexes of the possible effect of long-term variations of tidal type forces on the ocean and the Earth’s atmosphere] (*with* **Sarukhanian, Z. I.** and **Smirnov, N. P.**), 21.4–360
Sezonnye i mnogoletnie izmeneniia geograficheskogo polozheniia i intensivnosti Sibirskogo maksimuma atmosfernogo davleniia [Seasonal and secular variations of the geographical location of maximum atmospheric pressure in Siberia] (*with* **Karklin, V. P.**), 21.10–242

Maksimov, S. G., *see* **Kochubeĭ, S. G.**, 21.4–526

Maksutov, D. D.
Sezonnye raboty Odinnadtsatoi Sovetskoi Antarkticheskoi Ekspeditsii [Seasonal works of the 11th Soviet Antarctic Expedition], 21.12–53

Mal’bakhova, N. M., *see* **Dadali, Iu. A.**, 21.11–40

Malberg, Horst
Untersuchungen über die Auswertung von Satellitenaufnahmen, insbesondere uber die Abschätzung der troposphärischen Temperatur- Druck- und Feuchteverhältnisse [Investigations of the interpretation of satellite photographs, with

special reference to the estimation of tropospheric temperature, pressure, and humidity], 21.12–78

Malevskiĭ, S. P.
- Formirovanie otritsatel'nykh temperaturnykh gradientov vblizi vodnoĭ poverkhnosti [Formation of negative temperature gradients near water surface], 21.3–571
- Samoletnye aktinometricheskie nabliudeniia dlia rascheta radiatsionnogo balansa vodoema v period zamerzaniia [Aircraft actionometric measurements for calculating the radiation balance over a reservoir during freezing], 21.6–58
- Temperaturnyĭ i radiatsionnyĭ rezhim oroshaemykh risovykh poleĭ [The temperature and radiation regime of irrigated rice plantation], 21.1–52

Maliarova, G. V., *see* **Biuro, E. D.**, 21.5–309

Malik, C., *see* **Whitney, H. E.**, 21.9–189

Malik, L. K.
- Prokhozhdenie voln polovod'ia na glavnykh rekhakh i na pritokakh v tsentral'nykh raĭonakh Zapadno-Sibirskoĭ ravniny [Passage of spring flood water waves on the main rivers and tributaries in the central regions of the West Siberian plain], 21.9–345
- Vliĭanie rel'efa Zapadnoi Sibiri na osobennosti ee vodnogo rezhima [The influence of the relief of West Siberia on characteristics of its water regime], 21.9–308

Malin, S. R. C.
- Geomagnetic secular variation and its changes 1942.5 to 1962.5, 21.5–729
- *See also* **Chapman, Sydney**, 21.11–331

Malina, Frank J.
- Lunar laboratory, 21.4–475

Malitson, H. H., *see* **Alexander, J. K.**, 21.4–440

Malkevich, M. S.
- Application of the statistical method for determination of atmospheric temperature profiles from satellites (*with* **Kozlov, V. P.** and **Gorchakova, I. A.**), 21.4–166
- Metody interpretatsii radiatsionnykh izmereniĭ so sputnikov [Methods of interpreting satellite radiation measurements], 21.1–153
- Nekotorye rezul'taty issledovaniia iarkosti Zemli s pomoshch'iu ISZ "Kosmoa-149" [Some results of the Earth brightness study from Cosmos-149] (*with* **Siachinov, V. I. and Istomina, L. G.**) [and English transl.], 21.6–364
- *See also* **Istomina, L. G.**, 21.12–416; **Turchin, V. F.**, 21.2–199

Malkina, I. S.
- Prikhodnaia chast' balansa organicheskogo veshchestva drevesnogo podrosta v zavisimosti ot svetovykh usloviĭ vyrashchivaniia [Balance of organic matter of juvenile forest depending on the light conditions], 21.1–448

Malkov, E. I., *see* **Voĭnov, S. S.**, 21.10–486

Mallia, E. A.
- Penumbral magnetic field strengths, 21.11–654

Mallinger, William D.
- Project Stormfury operations and plans, 21.12–26R

Mallory, E. C., Jr.
- Water load of uranium, radium, and gross beta activity at selected gaging stations, water year 1960–1961 (*with* **Johnson, J. O.** and **Scott, R. C.**), 21.7–805

Malone, C., *see* **Adams, J. M.**, 21.3–218

Maloney, Ralph
- Design of operational programs for water yield management, 21.10–721

Malsor, Roy E., Jr., *see* **Federal-State-Private Snow Surveys**, 21.1–627

Maltby, P.
- Intensity of the penumbra of large sunspots (*with* **Mykland, N.**), 21.9–535
- *See also* **Engvold, O.**, 21.1–690; **Moe, O. Kjeldseth**, 21.9–537

Mal'tseva, O. A.
- Metod korrektirovki N (h)-profiliia oblasti F s uchetom mezhsloevoi ionizatsii v E–F [Method of correction of the N (h)-profile of the F-region considering the E–F interlayer ionization], 21.12–304
- Sposoby rascheta ionogramm dlia modeli ionosfery s nemonotonnym h (N)-raspredeleniem [Methods of ionogram calculation for ionospheric simulation with the nonmonotonic h (N)-distribution], 21.11–201

Malville, J. McKim, *see* **Nakagawa, Y.**, 21.12–636

Mamaenko, G. E.
- O rezul'tatakh izmereniia temperatury vnutrennikh poverkhnosteĭ dvustoronnego pirgeometra [Results of temperature measurements of internal surfaces of

  - double net radiometer] (*with* **Stefanov, N. G.** and **Andreev, V. D.**), 21.1–173
- **Mamaev, G. T.**, *see* **Bratsev, L. A.**, 21.5–752
- **Mamaev, O. I.**
  - O smeshenii chetyrekh vodnykh mass okeana [Mixing of the four water masses of the World Ocean], 21.9–718
  - Uproshchennoe uravnenie sostoianiia morskoi vody dlia diapazona nizkikh okeanicheskikh temperatur [Oversimplified equation of the state of seawater for the range of low oceanic temperatures] (*with* **Shumilov, A. V.**), 21.10–808
- **Mamidzhanian, E. A.**, *see* **Grigorov, N. L.**, 21.8–304
- **Mamikonova, Sof'ia Vartanovna**, *see* **Gural'nik, I. I.**, 21.5–9
- **Mamontov, N. V.**
  - Gorizontal'nye gradienty davleniia vozdukha na urovne zemnoĭ poverkhnosti na Evropeĭskoĭ territorii SSSR [Horizontal gradients of atmospheric pressure at the level of the Earth's surface in the European U.S.S.R.] (*with* **Sapozhnirova, S. A.**), 21.1–473
  - Gorizontal'nye gradienty temperatury vozdukha na urovne zemnoĭ poverkhnosti v ravninnykh usloviiskh [Horizontal gradients of atmospheric temperature at the level of the Earth's surface in flatlands] (*with* **Sapozhnikova, S. A.**), 21.2–173
- **Mamrukova, V. P.**, *see* **Dorman, L. I.**, 21.10–294
- **Manabe, Syukuro**
  - Climate and the ocean circulation, Pt. 1, 21.6–309; Pt. 2, 21.6–310
  - Climate calculations with a combined ocean–atmosphere model (*with* **Bryan, K.**), 21.2–333
  - Simulated climatology of a general circulation model with a hydrologic cycle, Pt. 3, Effects of increased horizontal computational resolution (*with others*), 21.10–240
  - Tropical circulation in a time–integration of a global model of the atmosphere (*with others*), 21.11–251
- **Manara, A.**, *see* **Buffoni, L.**, 21.1–421
- **Mancuso, R. L.**
  - Analyzing and forecasting clear-air turbulence probabilities over the United States (*with* **Endlich, R. M.**), 21.4–199
  - Objective and dynamic analyses of tropical weather (*with* **Endlich, R. M.**), 21.3 69; 21.5–153
  - *See also* **Viezee, W.**, 21.2–38
- **Mandadzhiev, Dimitŭr**
  - Prognoza na petdnevniia ottok na r. Ard pri s. Prileptsi [Forecast of the five-da runoff of Arda River near the villag of Prileptzi], 21.2–544
- **Mandel', D. G.**, *see* **Anapol'skaia, L. E** 21.6–437
- **Mandelli, Enrique F.**, *see* **Orlando, A. M** 21.3–683
- **Mandra, York T.**
  - Silicoflagellates: a new tool for the stu of Antarctic tertiary climates, 21.8–527
- **Mandych, A. F.**, *see* **Grigor'ev, V. I.**, 21.11 730
- **Mane, Uri**
  - Manual evaluation of autographic record for computer processing, 21.9–18
- **Manes, A.**
  - Solar radiation and radiation balance a the Central Meteorological Institut Bet Dagan (*with* **Teitelman, A.** an **Fruehling, I.**), 21.10–268
- **Manescu, Bujor**
  - Contributii la studiul microclimei adapos turilor si serelor acoperite cu materia plastic cultivate cu legume [Contribu tion to the study of the microclimate i shelters and hot houses for leguminou crops], 21.12–566
- **Mani, A.**
  - Meteorological instrumentation for atmo spheric studies, 21.3–174
  - Study of Angstrom's turbidity parameter from solar radiation measurements i India (*with others*), 21.11–492
  - Variations in the vertical distribution o ozone over India (*with* **Sreedharan, C R.**), 21.6–214
- **Manier, G.**
  - Bestimmung der erforderlichen Bauhöh von Schornsteinen [Computation of th required construction height of smok stacks], 21.6–178
- **Mankish, V. D.**
  - Vnutrigodovoe raspredelenie stoka rek karstovom raione na iuge Gor'kovsko oblasti i severnoi chasti Mordovsko ASSR [Distribution of river runof throughout the year in the karst area i the south of the Gorki region and in th northern part of the Mordov A.S.S.R.] 21.11–724

Manley, Gordon
Snowfall in Britain over the past 300 years, 21.8–433
Mann, C. R.
A summary of variability observed with monitoring sections off the east and west coasts of Canada, 21.10–825
Mann, Colin
Sydney has all the water it can use, 21.9–616
Mann, Dean E.
Public policy issues in weather modification, 21.3–301
Mannering, J. V.
Effect of crop row spacing on erosion and infiltration (*with* **Johnson, C. B.**), 21.8–491
Manohin, V.
Empirische Wintervorhersage 1969/70 für das Alpenraum-Klimagebiet [Empirical winter weather forecasting 1969/70 for the climatological area of the Alps], 21.9–97
Mansfield, Victor
Electron temperature distribution derived from optical and radio measurements of HII regions, 21.2–410
Mansfield, W. W.
Evaporation control in Australia, 21.8–351
Manson, A. H.
Relationship between the partial reflection of radio waves from the lower ionosphere and irregularities as measured by rocket probes (*with* **Merry, M. W. J.** and **Vincent, R. A.**), 21.6–235
See also **Gregory, J. B.**, 21.1–670; 21.2–70
Manson, P. W.
Some aspects of the hydrology of ponds and small lakes (*with* **Schwartz, G. M.** and **Allred, E. R.**), 21.4–259
Mansurov, S. M.
Novye dokazatel'stva sviazi mezhdu magnitnymi poliami kosmicheskogo prostranstva i Zemli [New evidences of the connection between the magnetic fields of cosmic space and the Earth], 21.8–715
Ob odnoĭ osobennosti sviazi mezhdu skorost'iu solnechnogo vetra i geomagnitnoĭ aktivnost'iu [One peculiarity of connection between solar wind velocity and geomagnetic activity] (*with* **Mansurova, L. G.**) [and English transl.], 21.6–409
Mansurova, E. P.
Opyt otsenki vekichiny atmosfernykh osadkov v gorakh Zailiĭskogo Alatau [Estimating the amount of precipitation in the Trans-Ili Ala Tau mountains] (*with* **Sosedov, I. S.**), 21.3–661
Mansurova, L. G., *see* **Mansurov, S. M.**, 21.6–409
Mantan, D. C., *see* **Banerji, S.**, 21.8–465
Manucharov, A. S., *see* **Dmitriev, E. A.**, 21.11–434
Maral, G., *see* **Cambou, F.**, 21.6–401
Marchenko, A. S.
Dostizhimaia tochnost' lineinogo statisticheskogo prognoza i optimal'naia razmernost' prediktora [Attainable accuracy of linear statistical forecast and optimal dimension of the predictor], 21.8–114
See also **Komarov, V. S.**, 21.11–27; **Kostiurov, V. V.**, 21.3–235
Marchesani, Vincent J.
A study of the effect of air pollution on fungus, 21.8–141
Marchevskiĭ, V. A., *see* **Ivanovskiĭ, A. I.**, 21.6–200
Marchini, J., *see* **Jail, M.**, 21.9–371
Marchuk, G. I.
Chislennye metody resheniia zadach prognoza pogody i teorii klimate [Numerical methods of solving the problems of weather prediction and of climatic theory], 21.8–96
Chislennyĭ metod rascheta prilivnykh dvizheniĭ v okrainnykh moriakh [Numerical method of tidal motions calculation in adjacent seas] (*with* **Kagan, B. A.** and **Tamsalu, R. E.**) [and English transl.], 21.2–735
O chislennom reshenii zadachi Puankare dlia okeanicheskikh tsirkuliatsiĭ [Numerical solution of the Poincaré problem for oceanic circulations] [and English transl.], 21.2–737
Ob odnoi postanovke zadachi o strukture techenii v bariklinnom more s uchetom makroturbulentnogo obmena [Statement of the problem on the structure of flows in baroclinic sea taking into account the macroturbulent exchange], 21.12–758
Short-term weather prediction by splitting of the complete hydrodynamic equations (*with others*), 21.5–168
Marcotte, L. P., *see* **Breene, R. G., Jr.**, 21.1–419
Marcus, Melvin G.
High Mountain Environment Project, 1968 field season, 21.2–314
Hydrology of snow and ice, 21.1–629

  Summer temperature relationships along a transect in the St. Elias Mountains, 21.7–428
Marcus, Sidney O., Jr.
  Evaluation of Navy automatic buoy ocean weather reports, 21.5–67
  Evidence of a critical wind speed over the ocean, 21.6–498
Marena, G., *see* **Tomassini, G.**, 21.2–359
Mares, E., *see* **Panofsky, H. A.**, 21.1–352
Marfenko, O. V.
  Otsenka tochnosti rezul'tatov radiozondirovaniia na aerologicheskoĭ seti Sovetskogo Soiuza [The estimation of radiosonde data accuracy in the upper-air network of the Soviet Union], 21.5–145
Margat, J., *see* **Castany, G.**, 21.8–789; 21.9–612
Margolis, J. S.
  Extension of calculations of rotational temperature and abundance of methane in the Jovian atmosphere (*with* **Fox, K.**), 21.7–760
  Studies of methane absorption in the Jovian atmosphere, Pt. 1, Rotational temperature from the $3_{\nu 3}$ band (*with* **Fox, K.**), 21.11–589
  Studies of methane absorption in the Jovian atmosphere, Pt. 2, Abundance from the $3V_3$ band (*with* **Fox, K.**), 21.11–590
Margrave, Thomas E., Jr.
  More on granulation models (*with* **Swihart, T. L.**), 21.9–524
Margulies, Robert S., *see* **Peskoff, Arthur**, 21.10–327
Marion, Frank C., *see* **Sinclair, Peter C.**, 21.7–638
Maris, Georgeta
  Some aspects of the N–S asymmetry of chromospheric eruptions with geophysical effects produced by electromagnetic and corpuscular radiation (*with* **Dinulescu, V.**), 21.10–657
Marius, John B., *see* **Betson, Roger P.**, 21.8–454
Marker, W. S., Jr., *see* **Atlas, D.**, 21.2–59
Markert, J. R., *see* **Waldichuk, M.**, 21.2–703
Markin, V. A.
  Teplovoĭ balans, usloviia ego formirovaniia i abliatsiia lednikov v. Zaoadnyĭ Shpitsbergen v 1965 g. [Heat balance, conditions of formation and ablation of the West Spitsbergen glaciers in 1965], 21.2–624
Markina, A. K., *see* **Kramer, E. N.**, 21.1 634
Markina, N. G., *see* **Korobov, M. G.**, 21.1 444
Markov, G. A., *see* **Gil'denburg, V. E** 21.9–464
Markov, K. K.
  K istorii Mertvogo moria [History of th Dead Sea], 21.4–631
Markov, M. N.
  Molecular radiation of the upper atmo sphere in the 3–8-mu spectral regio 21.4–55
  Vodianoĭ par v mezosfere, po danny izmereniĭ s geofizicheskikh raket i IS "Kosmos-45" i "Kosmos-65" [Water va por in the mesosphere, according to mea surements made by geophysical rocket and the Cosmos-45 and Cosmos-65 sate lites], 21.1–551
Markovich, M. L., *see* **Volynets, L. M** 21.4–281
Marlatt, W. E.
  Investigation of water surface tempera ture by an airborne infrared radiomete (*with* **Grossman, R. L.**), 21.6–468
Marmershteĭn, I. I.
  Kriterii ustoĭchivosti konechnoraznostnog uraveniia diffuzii primesi [The stabilit criteria for the finite-difference equa tion of centaminant diffusion] (*wit* **Shnaĭdman, V. A.**), 21.10–231
Marov, M. Ia.
  Temperature and density of the thermo sphere in 1966–1967 (*with* **Alperov, A M.**), 21.5–317
  See also **Avduevskiĭ, V. S.**, 21.2–439 21.9–496; **Istomin, V. G.**, 21.3–349
Marovich, E., *see* **Gadsden, M.**, 21.3–520 **Norton, R. B.**, 21.10–518
Marquardt, W.
  Der Einfluss des Nebels auf die radioaktiv Kontamination in der Biosphäre [In fluence of fog on radioactive contamina tion in the biosphere], 21.6–258
Marr, Geoffrey V.
  Plasma spectroscopy, 21.1–13
Marsal, Dietrich
  Statitische Methoden für Erdwissenschaftler [Statistical methods for Earth sciences], 21.10–7
Marsh, Albert W.
  Education of the agricultural water user 21.10–559
Marsh, K. J.
  Experimental study of the dispersion o

the emissions from chimneys in reading, Pt. 3 (*with* **Withers, V. R.**), 21.4–203

Marsh, M. Clive, *see* **Spreiter, John R.,** 21.12–432

Marsh, Verne

Abbot pyranometer as a reference standard for calibration of pyranometers, 21.6–74

Marshall, B. Vaughn, *see* **Lachenbruch, Arthur H.,** 21.9–736

Marshall, J. D., *see* **Wells, M. B.,** 21.2–6

Marshall, J. Stewart

Instability and liquid water content in cumulonimbus clouds, 21.1–588

Weather radar studies, 21.7–27

Marshall, James C.

Behavior of smoke trails, 30 to 70 km, 21.3–70

Marshall, John S.

Comments on high-power high-resolution radars, 21.8–72

Marshall, Neil F., *see* **Shepard, F. P.,** 21.4–660

Martell, E. A.

High altitude air sampling with a rocket-borne cryocondenser, 21.6–64

Martem'ianov, V. I.

O statisticheskoĭ strukture polia geopotentsiala i davleniia u Zemli [Statistical structure of the Earth's geopotential and pressure field], 21.2–218

Ob anizotropii korreliatsionnykh funktsiĭ polia geopotentsiala (davleniia) [Anisotropy of the correlation functions of the geopotential (pressure) field], 21.2–352

Martens, Lawrence A.

Flood inundation and effects on urbanization in metropolitan Charlotte, North Carolina, 21.2–277

Martin, C. D., *see* **Dycus, R. D.,** 21.1–603

Martin, C. Samuel

Open-channel surge simulation by digital computer (*with* **DeFazio, F. G.**), 21.10–562

Martin, E. C.

Relation of precipitation to flow from Little Leroux Spring on the San Francisco Peaks, Arizona, 21.8–453

Martin, Frank L.

Statistical characteristics of subtropical jet-stream features in terms of MRIR observations from Nimbus-2 (*with* **Salomonson, V. V.**), 21.11–350

Statistical specification of the 500-mb height fields using smoothed medium-resolution radiometric fields of Nimbus-II, 21.3–582

Martin, Glen L., *see* **Foster, Richard L.,** 21.9–323

Martinelli, G., *see* **Giles, M.,** 21.7–183

Martini, H. J.

Hydrogeological mapping in the Federal Republic of Germany and corresponding activities by its Geological Survey in Foreign countries, 21.9–628

Martinov, M.

Osobenosti na anomaliite na prizemnoto naliagane nad Evropeĭskiia sinoptichen raĭon prez 1961 godina [Peculiarities of the anomalies of the surface pressure over the European synoptic region during 1961], 21.10–317

Martinov, M. I.

Peremeshchenie tsiklonov u poverkhnosti zemli na Balkanskom poluostrove i potok v srednikh sloiakh troposfery [Displacement of cyclones at the surface of the Balkan Peninsula and flux in the middle tropospheric layers], 21.4–100

Sviaz' mezhdu peremeshcheniem tsiklonov u poverkhnosti Zemli na Balkanskom poluostrove i potokom na urovniakh 700 i 500 mb [Connection between displacement of cyclones at the Earth's surface on the Balkan Peninsula and the current at the 700 and 500 mb levels], 21.12–379

Martinson, G. G.

Vsegda li bezvodnoĭ byla pustynia Gobi [Has the Gobi Desert always been waterless?], 21.10–454

Martres, M. J.

Origine des régions actives solaires 'anormales,' [Origin of abnormal solar active regions], 21.2–464

Quelques effets de l'interaction des centres actifs solaires [Some effects of the interaction of solar activity centers], 21.10–648

Study of the localization of flares in selected active regions (*with others*), 21.1–703

Martynkevich, G. M., *see* **Biuro, E. D.,** 21.5–309

Martz, Dowell E.

Analysis of atmospheric concentrations of RaA, RaB and RaC by alpha spectroscopy (*with others*), 21.10–93

Marwitz, J. D., *see* **Auer, A. H., Jr.,** 21.10–89R; 21.11–143

Maruyama, Taketo

Long-term behavior of Kelvin waves and mixed Rossby–gravity waves, 21.7–275

- Upward transport of energy and westerly momentum due to large-scale disturbances in the equatorial lower stratosphere, 21.7–276

Marx, Siegfried
- Mittlere jährliche Zahl der Schneedeckentage im Gebiet der DDR [Average yearly number of days with snow cover in East Germany], 21.3–109
- Uber die extremsten Niederschlagsmengen auf der Erde [Survey of extreme precipitation amounts over the Earth], 21.8–403

Marx, Wesley
- Frail ocean, 21.3–759

Maryland. Univ., College Park. Dept. of Physics and Astronomy, *see* **Bettinger, R. T.,** 21.2–62

Mascitti, Frank
- Modern instrumentation and the challenges of water problems, 21.9–68

Maseide, K., *see* **Jespersen, M.,** 21.11–516

Mashkovich, S. A.
- Gidrodimanicheskie issledovaniia obshcheĭ tsirkuliatsii atmosfery [Hydrodynamic research on the general atmospheric circulation], 21.6–311
- Ob usovershenstvovanii metodiki prognoza baricheskogo polia na neskol'ko dneĭ [Improving the methods of forecasting pressure fields for several days], 21.1–246
- On controlling influence of cloud systems on large-scale atmospheric processes, 21.7–578
- *See also* **Dobryshman, E. M.,** 21.3–230

Mashukov, P. M.
- Gidrometeorologicheskie usloviia zimnikh navodneniĭ na r. Syrdar'e [Hydrometeorological conditions for winter floods on the Syr-Darya River], 21.9–346

Maslennikov, V. V.
- Some characteristics of saline soils in the zone where groundwater thins out in the southwestern Golodnaya Steppe [Transl. from Russian], 21.4–397

Masley, A. J., *see* **Baker, M. B.,** 21.7–392

Masliuk, D. A., *see* **Sapozhnikov, V. I.,** 21.12–156

Mason, B. J.
- Economic value of meteorological services in the United Kingdom, 21.1–71
- Generation of electric charges and fields in precipitating clouds, 21.7–714
- Weather forecasting by computer, 21.9–82
- Weather modification, 21.8–119

Mason, Harold P., *see* **Owen, Tobias,** 21.7–762; 21.10–621

Massachusetts Inst. of Tech., Dept. of Met., *see* **DeVorkin, D. B.,** 21.5–32; **Mollo-Christensen, E.,** 21.6–287; **Ruggles, K. W.,** 21.1–503; **Seesholtz, J. R.,** 21.2–231; **Toscano, W. M.,** 21.5–119

Masset, P., *see* **Myttenaere, C.,** 21.3–706

Massey, D. G., *see* **Richards, T. L.,** 21.6–470

Massfeller, D., *see* **Bortels, H.,** 21.7–461

Mast, J. W.
- Motions of high-latitude hydrogen clouds (*with* **Goldstein, S. J., Jr.**), 21.5–723

Mastenbrook, H. J.
- Concurrent measurements of water vapor and ozone over Washington, D. C., during 1967 and 1968 (*with* **Purdy, D. R.**), 21.7–169

Masterskikh, M. A.
- Neperiodicheskie izmeneniia temperatury i vlazhnosti vozdukha na poberezh'e moria Laptebykh v letniĭ sezon [Nonperiodic variations of atmospheric temperature and humidity at the shores of the Laptev Sea during the summer], 21.2–189
- O vertikal'noĭ sostavliaiushcheĭ skorosti Novorossiĭskoĭ bory [Vertical component of the velocity of the bora of Novorossiisk], 21.1–525

Masterson, John E.
- A random Doppler measurement technique for the global atmospheric research program, 21.12–79

Masuda, Y.
- Finite difference scheme by making use of hexagonal mesh-points, 21.3–237

Masuzawa, Jotaro
- Cruise report on multi-ship study of short-term fluctuations of the Kuroshio in October to November 1967, 21.4–726
- Second cruise for CSK, Ryofu Maru, January to March 1968, 21.8–819
- Subtropical mode water, 21.9–719

Matano, Hiroshi, *see* **Imada, Masaru,** 21.7–96

Matarzin, Iu. M., *see* **Shkliaev, A. S.,** 21.2–514

Mather, J. D.
- Use of tracers to investigate the relationship between mining subsidence and groundwater occurrence at Aberfan, South Wales (*with* **Jenkins, D. G.** and **Gray, D. A.**), 21.6–773

Mather, John R.
Irrigation agriculture of humid areas, 21.2–282

Mather, K. B.
Pattern of surface wind flow in Antarctica, 21.6–494

Matheson, K. M.
Meteorological effect on ice in the Gulf of St. Lawrence, 21.12–21

Mathieu, B.
Snow and ice in Quebec (*with* **Pesant, C.**), 21.8–467

Mathieu, Guy G.
Rn^{222} in Antarctic near-surface waters, 21.4–675
See also **Hunkins, Kenneth,** 21.8–828; **Ku, T. L.,** 21.4–677; **Van Donk, J.,** 21.4–744

Mathur, Mukut B.
Note on an improved quasi-Langrangian advective scheme for primitive equations, 21.7–88

Mathur, N. C., *see* **Swenson, G. W., Jr.,** 21.8–718

Mathur, R. N.
Water table fluctuations in the Meerut district, Uttar Pradesh, India, 21.12–691

Matin, A.
Basic data collection for water development in East Pakistan, 21.8–452

Matoušek, Jiři
Nash opyt po izmereniiu radioaktivnosti vneshneĭ sredy v gorode Pl'zen' [Measuring radioactivity of the atmosphere around Plzen] (*with* **Mertl, F.** and **Patočka, S.**), 21.1–341

Matsuike, Kanau
Optical characteristic of the water in the three Oceans, Pt. 2 (*with* **Sasaki, Y.**), 21.8–829
Optical characteristics of the water in the three Oceans, Pt. 3, The distribution of solar energy reached to and penetrated in the water of the Antarctic Ocean in the summer and its comparison to other oceans, 21.8–830

Matsukura, H.
Relations between summer weather in northern Japan and Northern Hemisphere pressure pattern in view of polar motion, 21.10–474; 21.11–85R

Matsumoto, Seiichi
On the role of convective momentum exchange in the mesoscale gravity wave (*with* **Ninomiya, K.**), 21.5–402
Smaller scale disturbance in the temperature field around a decaying typhoon with special emphasis on the severe precipitation, 21.5–418
Some characteristic features of the heavy rainfalls observed over western Japan on July 9, 1967, Pt. 1, Mesoscale structure and short period pulsation (*with* **Akiyama, T.**), 21.8–410
Some characteristic features of the heavy rainfalls observed over western Japan on July 9, 1967, Pt. 2, Displacement and life cycle of mesoscale rainfall cells (*with* **Tsuneoka, Y.**), 21.8–411
See also **Ninomiya, K.,** 21.4–29; 21.5–169
Statistical study on the relation between cloud amount and heat and moisture supply from the Japan Sea surface in January (*with* **Ninomiya, K.** and **Akiyama, T.**), 21.6–590

Matsumoto, T., *see* **Yamashita, A.,** 21.6–329

Matsuoka, M.
Measurement of the absolute intensity of cosmic X-rays, 21.8–307

Matsuoka, Takashi
Lag relation between May rainfall in Shikoku and long-period circulation anomalies in the preceding months: a long-range forecast technique, 21.11–117
Lag relation between rainfall amount in Shikoku mountainous areas for May and long-period circulation anomalies in the preceding months, 21.9–320

Matsushita, S.
Dynamo currents, winds and electric fields, 21.8–188
Morphological behavior of blanketing sporadic E at middle latitudes (*with* **Abhirama Reddy, C.**), 21.2–75
See also **Kato, S.,** 21.5–349; 21.8–184

Matsuura, Oscar T.
Magnetohydrodynamic approach for interpreting solar polarization bursts at 7 GHz, 21.11–554
See also **Kaufmann, P.,** 21.2–427

Mattana, N.
Considerazioni sulla circolazione atmosferica nell'alta troposfera e bassa stratosfera sulla Sardegna [Considerations of the atmospheric circulation in the upper troposphere and lower stratosphere over Sardinia] (*with* **Sanna, S.** and **Serra, A.**), 21.2–92
Descrizione di una nuova ozonosonda impiegata dall'O.S.S.M.A. di Cagliari [De-

scription of a new ozonesonde used by the O.S.S.M.A. (Osservatorio Scientifico Sperimentale di Meteorologia Aeronautica) at Cagliari] (*with others*), 21.2–30
  Mesures directes de la concentration de l'ozone atmosphérique sur la verticale de Cagliari [Direct measurement of atmospheric ozone concentration on the vertical of Cagliari] (*with* **Repetto, F.** and **Serra, A.**), 21.7–170
  Ozonosondaggi effettuati a Cagliari dal febbraio 1967 al febbraio 1968 [Ozonesonde effects at Cagliari from Feb. 1967 to Feb. 1968] (*with* **Repetto, F.** and **Serra, A.**), 21.2–31
Matte G., Augusto, *see* **Donoso R., Jaime**, 21.11–95R
Matthai, H. F.
  Floods of June 1965 in South Platte River basin, Colorado, 21.8–474
Matthaus, Wolfgang
  Durchflusskoeffizient bei Rohrpegelanlagen [Discharge coefficient in tide gage assembly], 21.12–743
  Zur Entdeckungsgeschichte des äquatorialen Unterstroms im Atlantischen Ozean [Summary account of the history of discovery of the Atlantic equatorial undercurrent], 21.10–819
Matthews, P. A.
  Effect of reflecting layers in the troposphere on transhorizon propagation (*with* **Dufu, S.**), 21.9–141
Mattig, W.
  Fine structure of brightness, velocity and magnetic field in the penumbra (*with* **Mehltretter, J. P.**), 21.8–766
  Geometrical height–scale and the pressure equilibrium in the sunspot umbra, 21.9–536
  Studies of granular velocities, Pt. 1, Granular Doppler shifts and convection motion (*with* **Mehltretter, J. P.** and **Nesis, A.**), 21.9–527
Mattioli, Livia E.
  Confronto tra le caratteristiche delle onde nella corrente zonale dei due emisferi [Comparison of characteristics of waves in the zonal flow of two hemispheres], 21.1–391
Mattson, G. A., *see* **Godman, R. M.**, 21.11–304
Mattsson, Rolf
  Seasonal variation of short-lived radon progeny, Pb 210 and Po 210, in ground level air in Finland, 21.12–328
Matushevskiĭ, G. V.
  Issledovanie sviazi istinnykh i srednikh uklonov vzvolnovannoĭ poverkhnosti moria [Statistical investigation of the mean slopes of the wavy sea surface] [and English transl.], 21.3–800
  Transformatsiia dvumernogo energeticheskogo spektra i izmenenie statisticheskikh kharakteristik vetrovogo volneniia v melkovodnoĭ zone s priamolineĭnymi izobatami [Transformation of the two-dimension energy spectrum and changes in the statistical characteristics of a wind wave in the shoal water zone with linear isobaths], 21.9–741
Matusov, A. L.
  Kharakter izmeneniĭ funktsional'nykh sistem organizma v razlichnykh klimaticheskikh zonakh vo vremia morskogo perekhoda Leningrad–Mirnyĭ, 18 noiabria-21 dekabria 1967 g. [The character of the functional system changes in different climatic zones during the sea voyage Leningrad–Mirnyy, November 18–December 21, 1967] (*with* **Garshenin, V. F.**), 21.7–661
  Nekotorye voprosy akklimatizatsii cheloveka v Antarktide [Some problems of acclimatization of man in Antarctica] (*with* **Ponomarev, V. N.**) [and English transl.], 21.5–672
  Predvaritel'nye svedeniia o pervom etape akklimatizatsii cheloveka v pribrezhnoĭ zone Antarktidy (stantsiia Molodezhnaia) [Preliminary reports on the first stage of acclimatization of human beings in the coastal zone of Antarctica (Molodezhnaia Station)] (*with* **Lukachev, V. V.** and **Garshenin, V. F.**), 21.7–690
Matuura, Nobuo
  Ionospheric effects of the faster rotation of the upper atmosphere, 21.8–189
  Proton cyclotron echoes in the topside ionosphere (*with* **Nishizaki, R.**), 21.11–202
  Structure of topside ionosphere deduced from Alouette data (*with* **Ondoh, T.**), 21.10–174
  Structure of the topside ionosphere over Japan (*with* **Ondoh, T.**), 21.10–175
Matveev, L. T.
  Vliianie meteorologicheskikh uslovii na osazhdenie oblaka tiazheloi polidispersnoi primesi [The influence of meteorological conditions on the deposition of a cloud of heavy polydispersion admixture] (*with* **Bykova, L. P.**), 21.8–142

Mauersberger, Peter
Ergiebigkeit eines stationären Brunnens im in homogenen, orthotropen Grundwasserträger [Productivity of a stationary spring in an inhomogeneous, orthotropic groundwater carrier], 21.10–737
Maunder, W. J.
Consumer and the weather forecast, 21.1–213
Pollution (*with* **Foster, H. D.**) (eds.), 21.5–269
Weather, weather modification, and air pollution, 21.1–302
What is pollution?, 21.1–303
Mauritius. Meteorological Dept.
Annual Report, 1967, 21.1–41
Mauvais, J. L., *see* **Le Floch, J.**, 21.1–742
Mawdsley, J., *see* **Preddey, G. F.**, 21.3–159
Mawer, Patrick Andrew, *see* **Burley, Michael John**, 21.9–689
Maxey, George B., *see* **Behnke, J. J.**, 21.6–540
Maxwell, W. G. H.
Atlas of the Great Barrier Reef, 21.10–444
Mayençon, René
Étude statistique des observations de vagues [Statistical studies of wave observations], 21.2–650
Mayer, U.
Open multipliers in the soft X-ray region, (*with* **Mozer, M.** and **Rainhardt, M. V.**), 21.9–237
Mayl, S. D.
The day I met 'Belinda,' 21.7–295
Instant weather dodging, 21.3–21
Maykut, G. A.
Numerical prediction of the thermodynamic response of Arctic sea ice to environmental changes (*with* **Untersteiner, N.**), 21.5–782
Maynard, Harry W.
Procedures for computing variance spectra (*with others*), 21.12–25
Spectra of atmospheric fluctuations over a frequency range from 0.02083 to 30 cycles/hour (*with* **McBride, M. F.** and **Stoner, R. R.**), 21.3–606
Mayoral, J. R.
Ice forming ability of some organic compounds at water sub- and super-saturations (*with others*), 21.12–180
Mayr, Erwin
Über die Bodentemperatur unter schneefreier und schneebedeckter Oberfläche [Soil temperatures beneath snow-free and snow-covered surfaces] (*with* **Wartburg, B.**), 21.11–324
Mayr, H. G.
On the seasonal and day-to-day variations in the F2-region (*with* **Mahajan, K. K.**), 21.6–236
Mayrsohn, Henry, *see* **Gordon, R. J.**, 21.5–251
Maze, R.
Origin of muon-poor extension air showers (*with others*), 21.7–415
Portable and handworking impactor for aerosol particles (*with others*), 21.12–98
Mazeika, Paul A.
Mean monthly sea surface temperatures and zonal anomalies of the tropical Atlantic, 21.1–42
Mazin, I. P.
K teorii formirovaniia spektra razmerov oblachnykh kapel' pri stokhasticheskoĭ kondensatsii [Theory of cloud drop size spectrum formation by stochastic condensation] (*with* **Smirnov, V. I.**), 21.6–585
Vozmozhnye uproshcheniia pri raschete skorosti kondensatsionnogo rosta kapel' rastvora [Possible simplification in calculation of aqueous solution drop growth rate], 21.6–559
See also **Kabanov, A. S.**, 21.12–500
Mazina, N. A., *see* **Nemenko, B. A.**, 21.3–50
Mazurova, L. I., *see* **Abal'ian, T. S.**, 21.9–1R
Mdinaradze, D. A.
Prognoz temperatury vozdukha na srednie sroki v Zapadnoĭ Gruzii s ispol'zovaniem estestvennykh ortogonal'nykh sostavliaiushchikh [Prognosis of air temperature for intermediate periods in Western Georgia by use of natural orthogonal components], 21.11–115
Statisticheskiĭ analiz i prognoz polozheniia planetarnykh vysotnykh frontal'nykh zon s pomoshch'iu estestvennykh sostavliaiushchikh [Statistical analysis and prognosis of the location of planetary, altitudinal, frontal zones by means of natural components] (*with* **Mepistsveridze, E. I.**), 21.10–105
Mecham, Devon, *see* **Zdunkowski, Wilford G.**, 21.7–341
Mechtly, E. A.
Latitude variation of the lower ionosphere (*with* **Mukunda Rao, M.**), 21.11–203
Medaliev, Kh. Kh., *see* **Antonov, V. S.**, 21.4–279
See also **Kazankova, Z. P.**, 21.11–368
Medina, Kyle D., *see* **Smoot, George F.**, 21.9–578

Medlicott, T. G., *see* **Bernachi, D. A.**, 21.11–278
Medvedev, Ku. A., *see* **Gutop, Iu. V.**, 21.8–599
Medwin, Herman
  In situ acoustic measurements of bubble populations in coastal Ocean waters, 21.5–792
Mee, Thomas R.
  Airborne seeding. Skywater conference, 21.12–193
Meecham, W. C.
  Equilibrium characteristics of nearly normal turbulence, 21.11–238
  Scatter propagation of infrasound, 21.8–661
Meekins, J. F.
  X-ray spectra of several discrete cosmic sources (*with others*), 21.4–468
Meeks, Charles H.
  Report on the results of tests conducted with the humidity element of the Friez Hygrothermograph Model 594, 21.1–187
Meeks, M. L.
  Water vapor: observations of galactic sources (*with others*), 21.4–470
Meerburg, A. J.
  Diffusie-experiment voor de Nederlandse kust met behulp van Rhodamine B [Diffusion experiment off the Netherlands coast with Rhodamine B], 21.10–810
  See also **Expédition Antarctique Belgo–Néerlandaise, 1966**, 21.5–81; **Wisse, J. A.**, 21.3–328
Meerson, T. I.
  Vychislenie poter' dozhdevogo stoka po osadkam i stoku malykh rek na primere basseina r. Dnepra do g. Rechitsy [Calculation of rain runoff losses by precipitation and discharge of small rivers such as the Dneiper basin leading to the city of Rechitsa], 21.12–679
Meeus, Jean
  A propos d'une nouvelle liste d'éclipses de Lune [New list of lunar eclipses], 21.2–438
Megaw, W. J.
  Comparison of the uptake of sulfur dioxide in growing and existing droplets (*with* **Cox, L. C.**), 21.12–502
  [Discussion of] **Austin W. Hogan**: An experiment illustrating that gas conversion by solar radiation is a major influence in the diurnal variations of Aitken nucleus concentrations [and Reply by] **Hogan**, 21.8–357
  High resolution charge and mobility spectrometer for radioactive submicrometer aerosols (*with* **Wells, A. C.**), 21.8–214
Megill, L. R., *see* **Adams, G. W.**, 21.7–389; **Haslett, J. C.**, 21.7–158
Meher-Homj, V. M.
  Les bioclimats du sub-continent indien et leurs types analogues dans le monde [Bioclimates of the Indian sub-continent and their analogous types in the world], 21.12–569
Mehltretter, J. P.
  On π-components in Zeeman-split lines of the umbra spectrum, 21.11–665
  See also **Mattig, W.**, 21.8–766; 21.9–527
Meier, Mark F.
  Glaciers and the water supply, 21.7–643
  What are glacier surges? (*with* **Post, A.**), 21.11–747
Meier, Robert R.
  Hydrogen Lyman–alpha airglow, 21.6–390
Meikle, J. H., *see* **Waldichuk, M.**, 21.2–703
Meincke, Jens
  Tiefenzirkulation im Meer [Deep circulation in the ocean], 21.2–730
Meischeider, Herbert
  Wasserwirtschaftliche Probleme in Surinam [Water management in Surinam], 21.1–778
Meisel, David D.
  Further investigations of solar X-ray sources using D-layer ionization behavior during eclipses, 21.6–410
  Identification of two solar X-ray eclipse, 21.10–285
Meladze, G. G.
  K metodike dolgosrochnogo prognoza urozhaia tabaka i tunga [Technique of long-range prediction of tobacco and tung yield], 21.12–167
  See also **Tsertsvadze, Sh. I.**, 21.2–328
Melchior, Paul
  Some comments on the paper 'Moments of inertia and gravity field of the Moon' by **C. L. Goudas**, 21.4–499
Melent'ev, V. V., *see* **Rabinovich, Iu. I.**, 21.2–212; 21.4–181; 21.9–63R
Melentijevich, M.
  Estimation of flood flows using mathematical statistics, 21.7–785
Meleshko, V. P., *see* **Mikhailov, Iu. D.**, 21.12–804
Melfi, Samuel H.
  Airborne laser–radar studies of the lower atmosphere (*with* **Stickle, J. W.**), 21.7–40

Melkozerova, T. M.
K klimatografii elliptichnosti rasseianiia vetrov v svobodnoĭ atmosfere [Climatography of the ellipticity of wind dissipation in free atmosphere], 21.11–348
Mellor, Malcolm
Investigation and exploitation of snowfield sites, 21.1–630
Mel'nichuk, Iu. V.
Struktura gorizontal'nykh pul'satsiĭ vetra v osadkakh po radiolokatsionnym dannym [Structure of horizontal wind pulsations in precipitations according to radar data], 21.1–115
See also **Gorelik, A. G.**, 21.1–114
Mel'nichuk, O. N., *see* **Befani, A. N.**, 21.1–774
Mel'nik, Iu. S.
O prostranstvennoĭ izmenchivosti srednikh za dekadu znacheniĭ defitsita vlazhnosti vozdukha [Spatial variability of mean decadal value of atmospheric moisture deficit] (*with* **Belukhina, G. V.**), 21.9–273
Ob ispol'zovanii prognoza teploobespechennosti dlia otsenki vodopotrebleniia sel'skokhoziaĭstvennykh kul'tur pri oroshenii [Use of the heat supply forecast for estimating the water requirement of agricultural crops during irrigation], 21.9–88
See also **Tokareva, L. G.**, 21.9–96
Mel'nikova, I. I., *see* **Laĭkhtman, D. L.**, 21.2–225
Mel'nikova, Z. D., *see* **Sapozhnikov, V. I.**, 21.2–546
Short-range forecast of the water discharge on the semimountainous tributaries of the Lower Amur, 21.9–56R
Ménard, Yves
Flood-forecast system in the Mekong Delta, Cambodia, 21.2–278
Mendell, R. B., *see* **Sandie, W. G.**, 21.7–344
Mendes, Aracy M., *see* **Kaufmann, P.**, 21.5–350
Mendez, David J.
Optical polarization induced by electric fields of thunderstorms, 21.7–711
Mendillo, M.
A seasonal effect in the mid-latitude slab thickness variations during magnetic disturbances (*with* **Papagiannis, M. D.** and **Klobuchar, J. A.**), 21.8–191
Mendonca, Bernard G.
Local wind circulation on the slopes of Mauna Loa, 21.5–508
Meng, C. I., *see* **Akasofu, S. I.**, 21.2–131
Menkel', M. F., *see* **Kritskiĭ, S. N.**, 21.2–582; 21.6–758; 21.10–30R
Menzel, D. H.
Nature of solar flares, 21.2–488; 21.10–658
Radio emission from high-level transitions in hydrogen, 21.8–717
Temperature distribution of the Moon, 21.7–751
See also **Anderson, G. F.**, 21.1–692
Menzhulin, G. V.
K metodike rascheta meteorologicheskogo rezhima v rastitel'nom soobshchestve [The method of calculating the meteorological regimes in the vegetation cover], 21.10–456
Metodika rascheta uglekislotnogo rezhima v sloe rastitel'nogo pokrova [Methods for calculating the carbon dioxide regime in a layer of the vegetation cover], 21.12–219
Mepistsveridze, E. I.
O vliianii termicheskikh usloviĭ Severnoĭ Atlantiki na formirovanie temperatury vozdukha v Zakavkaz'e [The effect of thermal conditions in the North Atlantic on the formation of air temperatures in the Trans-Caucasian area], 21.10–309
Statisticheskiĭ sposob prognoza anomalii sredneĭ mesiachnoĭ temperatury po Zakavkaz'iu [A statistical method for forecasting the anomaly of the mean monthly temperature in the Trans-Caucasian area], 21.10–109
See also **Mdinaradze, D. A.**, 21.10–105
Mercado, A., *see* **Schmorak, S.**, 21.10–734
Mercer, J. H.
Allerd oscillation: a European climatic anomaly, 21.9–377
Merceret, Francis J., Jr.
On the use of hot-film anemometry to measure turbulence in the presence of heavy rain, 21.8–60
Mergentaler, Jan
Sunspots in the year 1967, 21.8–767
Sunspots in the year 1968, 21.11–626
Merilees, P. E.
On the transition from axisymmetric to nonaxisymmetric flow in a rotating annulus, 21.5–379
Merle, J.
Sur l'évolution de la relation témperature–salinité en un point fixe, à l'équateur, dans le Pacifique occidental, pendant une période de 6 jours [Evolution of the temperature–salinity relationship at a

fixed point, on the equator, in the western Pacific, during a 6-day period] (*with* **Noel, J.**), 21.7–845

Merlivat, L., *see* **Lorius, C.**, 21.8–427

Meroney, R. N.

Characteristics of diffusion within model canopies (*with* **Cermak, J. E.**), 21.1–371

Wind tunnel studies of the air flow and gaseous plume diffusion in the leading edge and downstream regions of a model forest (*with* **Yang, B. T.**), 21.11–239

See also **Chaudhry, Fazal H.**, 21.9–258; **Kawatani, T.**, 21.12–357

Meroz, I., *see* **Milankovitch, M.**, 21.4–131

Merritt, Earl S.

Cirrus canopy evolution in selected Atlantic hurricanes (*with* **Bowley, C. J.**), 21.5–419

Merritt, Lester P.

Comparison of airborne and ground based weather radars, 21.6–100

Tests of airborne contour-mapping radar, 21.3–89

Merritt, W. F., *see* **Brown, R. M.**, 21.8–341

Merry, M. W. J., *see* **Manson, A. H.**, 21.6–235

Mersiianova, A. G.

O sutochnoĭ izmenchivosti obshcheĭ oblachnosti nad Severnoĭ Afrikoĭ [The diurnal variation of the over-all cloudiness over Northern Africa], 21.6–591

Merten, Ulrich, *see* **Lonsdale, H. K.**, 21.8–837

Mertl, F., *see* **Matoušek, J.**, 21.1–341

Mertsalova, N. B., *see* **Beliaev, I. P.**, 21.4–5

Mertsalova, N. I.

O prognoze temperatury vozdukha nad Severnoĭ Atlantikoĭ [Air temperature forecasting over the North Atlantic] (*with* **Ped', D. A.**), 21.9–95

Mertsalova, O. B.

Zakonomernosti korreliatsionnykh sviazeĭ plotnosti v svobodnoĭ atmosfere nad severnym polushariem [Relationships correlating the densities of the free atmosphere over the Northern Hemisphere], 21.11–155

Méry, P.

Reproduction en similitude de la diffusion dans la couche limite atmosphérique [Scale reproduction of atmospheric boundary layer diffusion], 21.6–286

Mesecar, Roderick S.

Time-dependent vertical temperature measurements across the water–sediment interface on the continental shelf west of Oregon (*with* **Bodvarsson, G.** and **Burt, W. V.**), 21.7–847

Meshcherskaia, A. V.

Razlozhenie godovogo khoda ledovitosti severnykh moreĭ po estestvennym ortogonal'nym funktsiiam vremeni [Expansion of annual trend of ice-cover percentage of northern seas by natural orthogonal time functions] (*with* **Dmitrieva-Arrago, L. R.**), 21.2–636

Mészáros, A.

Vertical profile of large and giant particles in the lower troposphere, 21.12–247

Vertical profile of the concentration of large and giant atmospheric particles, 21.5–271

Mészáros, Ernő

On the thermodynamics of the condensation on water soluble and mixed nuclei, 21.6–560

Size distribution of nitrate and soluble calcium particles, 21.5–272

Metcalf, Robert L.

Outline of environmental sciences (*with* **Pitts, James N., Jr.**), 21.12–248

Meteorology International, Inc. [Monterey, Calif.], *see* **Clark, J. R.**, 21.5–92; **Tilden, C. E.**, 21.5–27

Meteorological Soc. of Japan, Tokyo, *see* **Japan–United States Met. Rocket Project**, 21.1–145

Meyboom, P.

Hydrogeological research in the federal government and its potential benefits, 21.9–637

Meyer, Andre Johannes

Exploration of the Moon, 21.3–726

Meyer, Friedrich

Flare-produced coronal waves, 21.2–500

Meyer, G. L.

Use of environmental isotopes in hydrology: results from WMO/IAEA network, 21.7–623

Meyer, H.

Einfluss des Klimas auf das Kind [The effect of climate on the child], 21.8–550

Meyer, J. A.

Excitation of the auroral green line of atomic oxygen $({}^1s \longrightarrow {}^1D)$ by $N_2(A^3 \Sigma_\mu +)$ (*with others*), 21.11–535

Meyer, L.

Bilan des mesures au Laboratoire du Col de Porte, hiver 1967–1968 [Balance sheet of measurements of the "Colde Porte" Laboratory, winter 1967–1968] (*with others*), 21.6–53

Meyer, Peter
Cosmic rays in the galaxy, 21.11–564
Meyer, R. E.
Note on wave run-up, 21.5–799
Meyer, Walter D.
Diagnostic numerical study of the semiannual variation of the zonal wind in the tropical stratosphere and mesosphere, 21.11–169
Meyerett, R. E.
Coordinated measurements of particles luminosity and electron concentrations (*with* **Evans, J. E.**), 21.10–515
Mezaros, E.
On the thermodynamics of the condensation of atmospheric water vapor (*with* **Adamy, L.**), 21.12–503
Mezhvedomstvennoe Soveshchanie po Aktinometrii i Optike Atmosfery, 6th, Tartu, June 13–18, 1966
Aktinometrii i optika atmosfery: Trudy [Actinometry and atmospheric optics: Transactions of the 6th Interdepartmental Symposium], 21.1–29
Mezősi, Miklós
Az alapvető meteorológiai megfigyelések uj módszerei és eszközei az állomáshálózatban [New methods and equipments for basic meteorological observations in station networks], 21.1–165
Mhaiskar, P. R., *see* **Dhar, O. N.,** 21.8–395; 21.10–388
Miakisheva, N. N., *see* **Bagrov, N. A.,** 21.12–158
Miami. Univ., Coral Gables, Fla., Inst. of Marine Sciences, *see* **Estoque, M. A.,** 21.1–355; **Gerrish, H. P.,** 21.5–532
Miami. Univ. Rosenstiel School of Marine and Atmospheric Sciences, Miami
Annual Report of the Rosenstiel School of Marine and Atmospheric Sciences, 1968/1969 [Coral Gables], 21.9–120R
Miara, Krystyna
Wyznaczanie turbuleneyjnego strumienia ciepła metoda gradíentową według Kazenskiego i Monina [Determination of turbulent heat flow with Kazenskij and Monin's gradient method], 21.7–255
Michalczewski, Jerzy
Dorobek naukowy służby w zakresie meteorologii [Scientific achievements of the [Polish] Service in the field of meteorology], 21.11–96R
Michard, R.
Composante lentement variable des rayons X solaires en relation avec la structure des centres d'activité [Slowly varying component of solar X-rays in relation to the structure of centers of activity] (*with* **Ribes, E.**), 21.2–148
Cooperative study of solar active regions, 21.8–756
Micheller, István, *see* **Farkas, Amalia,** 21.9–238
Michelson, Irving
Ocean tide height calculation: horizontal forces, 21.12–803
Space age phenomenon: the evolution of lunar studies, 21.4–476
Michigan. Univ., Ann Arbor, Dept. of Met. and Oceanog., *see* **Biggs, W. G.,** 21.1–482; **Greves, M. E.,** 21.2–21; **Reichle, H. G., Jr.,** 21.2–123; **Steinberg, H. L.,** 21.3–603
Michigan. Univ., Ann Arbor. School of Natural Resources. Dept. of Resource Planning and Conservation, *see* **Cooper, C. F.,** 21.4–32
Michitti, Frank, *see* **Kovacs, Austin,** 21.9–328
Michnowski, Stanisław
Observations of electric field variations following lightning discharges, 21.8–629
Middleton, John T.
Sulfur oxides must be controlled, 21.8–143
Middleton, W. E. Knowles
Catalog of meteorological instruments in the Museum of History and Technology, 21.4–21
Midgley, James E., *see* **Johnson, Francis S.,** 21.9–502
Midttun, Lars
Variability of temperature and salinity at some localities off the coast of Norway, 21.10–826
Mielke, Paul W., Jr.
Elevation and spatial variation effects of wintertime orographic cloud seeding (*with others*), 21.11–139
Miers, B. T.
Circulation in the equatorial mesosphere in winter (*with* **Morris, J. E.**), 21.7–505
Short-term density variations over White Sands Missile Range (*with* **Olsen, R. O.**), 21.10–135
See also **Beyers, N. J.,** 21.12–60; **Morris, James E.,** 21.11–478
Miha, Josefina
Contributii la studiul influenței condițiilor agrometeorologice asupra Fazei de Formare si umplere a bobului la grîul de toamnă [Contributions to the study concerning the influence of agrometeorological conditions on the stage in which the

winter wheat grain is formed and filled out], 21.8–551

Contributii privind studiul condiţiilor agrometéorologice din perioada toamnă-iarnă pentru cultura grĭului [Contributions to the study of agrometeorological conditions for wheat growing during the autumn–winter period] (*with* **Socor, E.**), 21.9–387

Mihai, M., *see* **Radu, St.**, 21.3–101

Mihăilă, Elena

Estimarea precipitaţiilor de primăvară şi vară prin metoda Dragoiţev [Spring and summer rainfall estimates by Dragoĭtev's method] (*with others*), 21.3–38

Mikashavidze, B. A.

Opyt rascheta vertikal'nykh dvizheniĭ atmosfery s uchetom vliianiia orografii i frontal'nykh razdelov [Calculations of vertical motion in the atmosphere with allowance for the effect of orography and of frontal interfaces] (*with* **Nozadze, R. I.**), 21.10–349

Mikerina, N. V.

Sviaz' variatsiĭ azimutal'noĭ (vostochnoĭ) komponenty mezhplanetnogo elektricheskogo polia s variatsiiam geomagnitnogo polia v poliarnykh radĭonakh [Association of the variations of the azimuthal (western) component of the interplanetary electric field with the variations of the geomagnetic field in the polar regions], 21.8–714

See also **Ivanov, K. G.**, 21.8–277

Mikhaĭlenko, N. M.

Nekotorye kharakteristiki vnutrimassovykh konvektivnykh oblakov v raĭone Kieva [Some characteristics of internal mass convection clouds in the Kiev region], 21.3–416

Mikhailov, Iu. D.

Raschet prilivov i prilivnykh techenii v Meksikanskom zalive i Karibskom more [Calculation of tides and tidal currents in the Gulf of Mexico and the Caribbean Sea] (*with others*), 21.12–804

Mikhaĭlov, N. I., *see* **Gudilin, I. S.**, 21.7–818

Mikhaĭlov, V. N.

Computations of level changes and runoff distribution in a delta based on observational data (Danube Delta as an example) (*with* **Gan, G. N.** and **Makarova, T. A.**), 21.1–775

Mikhaĭlov, V. V.

Spectrophotometer with a normal emission spectrum at the output of the recorder (*with* **Voĭtov, V. P.**), 21.10–33R

Mikhailova, G. A.

Energeticheskie spektry molnievykh razriadov na sverkhnizkikh chastotakh po dannym garmonicheskogo analiza atmosfernikov [Energy spectra of lightning discharges at ultra-low frequencies from atmospheric harmonic analysis], 21.8–630

Mikhel', V. M.

K voprosu ob otsenke oshibok metoda sharov–pilotov, nabliudaemykh s odnogo punkta [The evaluation of the method of pilot–spheres observed from one point], 21.6–61

Perenosy snega pri meteliakh i snegopady na territorii SSSR [Transport of snow during storms and snowfall on the territory of the U.S.S.R.] (*with* **Rudneva, A. V.** and **Lipovskaia, V. I.**), 21.7–636

Mikhnevich, V. V.

Modal' atmosfery Venery po rezul'tatam priamykh izmereniĭ temperatury i plotnosti [Venus atmosphere model based on direct measurements of temperature and density] (*with* **Sokoloy, V. A.**), 21.1–684

Temperature and density of the Venus atmosphere according to measurements obtained by Venera-4 (*with* **Sokolov, V. A.**), 21.9–505

See also **Istomin, V. G.**, 21.3–349

Mikkelsen, I. Steen, *see* **Lundbak, Asger N.**, 21.11–199

Miklóssy, K., *see* **Gross, B.**, 21.1–5

Mikulski, Zdzisław

Bilans wodny jeziora Druzno [Water budget of the Druzno Lake] (*with* **Bojanowicz, M.** and **Ciszewski, R.**), 21.5–645

50-lecie służby hydrologicznej i meteorologicznej w Polsce [50 years of hydrological and meteorological service in Poland], 21.11–97R

Outline of Poland's hydrography, 21.4–503

Rozwój limnologii fizycznej w Polsce i potrzeba dalszych badán [Development of physical limnology in Poland and the need of further research] (*with* **Chojnowski, S.**), 21.4–597

Milan. Osservatorio Astronomico di Brera

Osservazioni meteorologiche eseguite nell' Osservatorio, 1968 [Meteorological Observations at the Observatory in 1968], 21.1–135

Milan. Seminario Arcivescovile. Osservatorio di Fisica Terrestre

Annuario, Vol. 25, 1968 [Annual, Vol. 25, 1968], 21.11–71R

Milankovitch, Milutin
Canon of insolation and the ice-age problem [Transl. from German], 21.4–131

Milanov, Todor, *see* **Falkenmark, M.,** 21.6–796

Milea, Elena
Unele rezultate privind analiza sinoptică a singularităţilor termice din luna ianuarie, la cîteva staţii din România [Some results of synoptical analysis concerning the thermal singularities of January at several Rumanian stations] (*with others*), 21.3–556

Mileĭko, G. N.
Prognoz temperatury vody v okeane [Forecasting ocean water temperature], 21.1–250

Miles, James W.
Collection and determination of trace quantities of pesticides in air (*with others*), 21.11–102

Militaru, Florica
Analiza situaţiei atmosferice din Republica Socialistă România în intervalul 17–19 noiembrie 1967 [Analysis of the atmospheric situation in Rumania from Nov. 17–19, 1967] (*with* **Limbăseanu, T.**), 21.1–396
Condiţiile aerosinoptice în care se produc primele ninsori în sudul Republicii Socialiste România [Aerosynoptic conditions prevailing on early snows in southern Rumania] (*with* **Struţu, M.**), 21.6–614

Miller, Albert
Elements of meteorology (*with* **Thompson, J. C.**), 21.10–8
Ozone within and below the west coast temperature inversion (*with* **Ahrens, C. D.**), 21.4–39
Wind profiles in west coast temperature inversions, 21.4–225
See also **Ahrens, D.,** 21.11–334

Miller, A. J.
Comparison of data obtained by the MT-135 and ARCAS meteorological rocket systems (*with* **Woolf, H. M.** and **Finger, F. G.**), 21.4–173
Response characteristics of meteorological rocket wind reduction techniques, 21.6–513
See also **Johnson, K. W.,** 21.5–412

Miller, Banner I.
Experiment in forecasting hurricane development with real data, 21.3–264

Miller, D. E.
Flow and retention of water in layered soils, 21.8–492

Miller, David H.
Development of the heat budget concept, 21.2–86

Miller, E. K.
Ionospheric antenna impedence probe (*with* **Schulte, H. F.** and **Kuiper, J. W.**), 21.3–375
On ionospheric composition measurements with an R. F. impedance probe (*with* **Schulte, H. F.**), 21.12–305

Miller, E. M.
Floods in Virginia: magnitude and frequency, 21.7–786

Miller, F.
Preliminary results of an air–sea interaction study (*with* **Stevenson, M.**), 21.4–2
Some meteorological results of the Eastropac expeditions, 21.4–3
See also **Goldman, J. L.,** 21.3–477

Miller, G. K., II
Motion of an expanding, decelerating artificial ion cloud from Doppler radar (*with* **Salinger, S. N.**), 21.12–31

Miller, Gerald S.
Currents at Toledo Harbor, 21.9–664

Miller, J. F.
Precipitation regime of Long Island, New York (*with* **Frederick, R. H.**), 21.7–606

Miller, J. R.
Rocket measurements of H Beta production in a hydrogen aurora (*with* **Shepherd, G. G.**), 21.10–516

Miller, Jacob H., *see* **Giver, L. P.,** 21.6–708

Miller, James E.
Investigation of the yearly surface horizontal circulation at Wurtsmith AFB, Michigan, 21.12–140

Miller, Joseph G., *see* **Bernstein, T.,** 21.6–79

Miller, Marvin E.
Climatic guide for selected locations in Ohio, 21.10–445
Holiday weekend holocaust in Ohio (*with* **Hamilton, R. E.**), 21.7–298
Monthly and annual precipitation probabilities for selected locations in Ohio (*with* **Weaver, C. R.**), 21.2–262

Miller, N. J.
Some winter characteristics of the northern high-latitude ionosphere (*with* **Brace, L. H.**), 21.7–195

Miller, Philip C.
Tests of solar radiation models in three forest canopies, 21.7–343

Miller, Stanley L.
  Clathrate hydrates of air in Antarctic ice, 21.10–772
Millero, Frank J.
  Partial molal volumes of ions in seawater, 21.2–716
Milligan, Donald B.
  Oceanographic survey results Kara Sea, summer and fall 1965, 21.6–828
Millington, R. J., *see* **Aston, A. R.**, 21.5–428
Millman, Peter M.
  Brief survey of upper-air spectra, 21.5–712
  Conjugate-point auroral studies at Byrd and Great Whale Stations, 21.11–520
  Radar meteor echo: survey paper, 21.9–473
  See also **Internatl. Ast. Union**, 21.4–488
Mills, Willard B.
  Floods of April 28, 1966 in the northern part of Dallas, Texas (*with* **Schroeder, E. E.**), 21.8–475
Milokhova, E. N., *see* **Inagamova, S. I.**, 21.1–382
Milosavljević, Marko
  Meteorologija [Meteorology], 21.8–5
Miloshev, G.
  Kondenzatsionni protsesi vŭrkhu grapavi povŭrkhnosti pri adsorbtsiia [Condensation processes on rough surfaces at absorption], 21.6–561
Miloshevich, V. A.
  Raschet sredneĭ plotnosti plyvushchikh shugoledianykh obrazovaniĭ [Calculation of the mean density of floating sludge-ice formations], 21.6–823
Milthorpe, F. L., *see* **Cowan, I. R.**, 21.3–700
Milton, Earl R.
  Edmonton survey of the Aurora Borealis, 21.10–517
Minaev, I. V.
  Increasing the intensity of drainage of the ground by vacuuming (*with others*) [Transl. from Russian], 21.3–702
Minaeva, E. N.
  Isparenie s trostnikovykh zarosleĭ v del'te Amudar'i [Evaporation from reed overgrowth in the Amu-Dar'ya delta], 21.9–281
  See also **Budagovskiĭ, A. I.**, 21.5–556
Minafra, Nicola
  Limiti operativi della visibilità sugli aeroporti di Milano–Linate e Malpensa [Operational limits of mean visibility at Milan–Linate and Malpensa airports] (*with* **Fanchiotti, S.**), 21.2–342
  Studio di alcune caratteristiche dei temporali associati ai fronti freddi estivi della Valpadana [Study of storm characteristics associated with summer cold fronts in Po Valley] (*with* **Borghi, S.**), 21.4–117
Minakova, N. E., *see* **Bel'skaia, N. N.**, 21.12–153
Mineeva, M. N.
  K voprosu o sootvetstvii mezhdu traektoriiami chastits, rasschitannymi po dannym fakticheskogo i geostroficheskogo vetra [Correlating trajectories of particles calculated from data on actual and geostrophic wind], 21.1–501
Minervin, V. E.
  Poliarizatsionnye issledovaniia struktury kuchevo-dozhdevykh oblakov [Polarization studies of the structure of rain cumuli] (*with* **Morgunov, S. P.** and **Shupiatskiĭ, A. B.**), 21.1–116
  Turbulence in the lower layer of the atmosphere and in low-level clouds, 21.11–18R
Minin, V. F.
  K prirode chetochnoi molnii [Nature of beaded lightning] (*with* **Baibulatov, F. Kh.**), 21.12–587
Miniushina, L. S.
  Osobennosti izmeneniia shestimesiachnoi tsiklichnosti zonal'nogo vetra po shirote i vysote v tropicheskoi stratosfere i nizhnei mezosfere [Features of variation in six-monthly cyclicity of zonal wind with latitude and altitude in the tropical stratosphere and lower mesosphere], 21.5–520
Minkley, B. G.
  Oceanographic observations at Ocean Station P (50°N, 145°W), 27 June to 25 September 1969 (*with* **Tripe, R. L. K.** and **Healey, D. A.**), 21.11–63R
Mintz, Y., *see* **Arakawa, A.**, 21.6–304
  See also **Leovy, Conway**, 21.7–756
Mirkotan, S. F.
  Metod izmereniia absoliutnykh fazovykh vysot v ionosfere [A method of measurement of absolute phase heights in the ionosphere] (*with* **Shibaev, Z. K.** and **Haĭ, C. T.**) [and English transl.], 21.4–66
  See also **Shelkovnikov, N. K.**, 21.4–183
Mironenko, E. T., *see* **Elagina, L. G.**, 21.10–20
Miroshnichenko, L. I.
  Diffuziia solnechnykh kosmicheskikh lucheĭ pri nalichin magnitnogo bar'era v mezhplanetnom prostranstve [Diffusion of solar cosmic rays with the presence of the magnetic barrier in the inter-

planetary space] [and English transl.], 21.3–540
Kosmicheskie luchi i zemnaia atmosfera [Cosmic rays and the Earth's atmosphere], 21.2–168
O nekotorykh osobennostiakh energeticheskogo spektra solnechnykh kosmicheskikh lucheĭ [Some features of the energy spectrum of solar cosmic rays], 21.7–416
See also **Kaminer, N. S.**, 21.3–537

Mirumiants, S. O., *see* **Filippov, V. L.**, 21.4–139; 21.7–332, –334; **Moskalenko, N. I.**, 21.7–339

Misaki, M.
Some features of the dynamic spectrum of atmospheric ions throughout the mobility range 4.22–0.00042 cm²/volt sec (*with* **Kanazawa, I.**), 21.9–431

Misawa, Kiyotoshi, *see* **Okuda, Mitsunao**, 21.7–359; 21.8–251

Miscoski, Vincent T.
U. S. Naval Oceanography, 21.3–760

Mishari, Hassan
Towards full water utilization in Saudi Arabia, 21.8–791

Mishchenko, V. S., *see* **Rybin, Iu. N.**, 21.5–43

Mishchenko, Z. A.
Kolichestvennaia otsenka mikroklimaticheskoĭ izmenchivosti raschetnykh zimnikh temperatur naruzhnogo vozdukha dlia tseleĭ stroitel'stva [Quantitative evaluation of microclimatic variability of calculating winter temperatures of the outside air for the purpose of construction], 21.7–429
Osobennosti formirovaniia fitoklimata na poliakh khlopchatnika i sorgo [Characteristics of the formation of a phytoclimate on cotton and sorghum fields] (*with* **Nikolaeva, Z. I.** and **Kupchenko, G. S.**), 21.7–677
Otsenka teplovykh resursov territorii administrativnykh oblastei s uchetom ekspozitsii sklonov [Evaluation of the thermal resources of the territories of administrative districts taking into account the exposure of slopes], 21.7–314

Mishev, Iliia
Izsledvaniia vŭrkhu termoluministsentsiiata na CaSO₄:Mn s ogled izpolzvaneto i v dozimetriiata [Investigations on the thermoluminescence of CaSO₄:Mn with a view to its application in dosimetry] (*with others*), 21.10–94

Mishin, V. M.
Magnetosphere model based on two zones of precipitating energetic particles, 21.8–285

Misiura, V. A.
Izmerenie effektov, voznikaiushchikh v ionosfere pri rasprostranenii radiovoln ot iskusstvennykh sputnikov Zemli [Measurement of the effects, rising in the ionosphere when radio waves spread from artificial satellites of the Earth] (*with others*), 21.7–196
Sovmestnye ionosfernye izmereniia raslichnymi radiofizicheskimi metodami [Joint ionospheric measurements by different radio physical methods], 21.9–175

Misme, P.
Interference on communications links between ground stations and geo-stationary satellites, 21.10–64
Mesures de la température de l'atmosphère par radiométrie hyperfréquence [Temperature measurements of the atmosphere by hyperfrequent radiometry] (*with* **Robert, A.**), 21.11–33

Misra, P. K., *see* **Mukherjee, A. K.**, 21.7–296

Mitchell, Lloyd V.
Processing upper atmospheric environmental data for climatological use, 21.9–21

Mitchell, R. L., *see* **Reber, E. E.**, 21.9–119; 21.12–321

Mitiakov, N. A., *see* **Mitiakova, E. E.**, 21.3–39

Mitiakova, E. E.
Kvazisinusoidal'nye vozmushcheniia v ionosfere [Quasi-sinusoidal disturbances in ionosphere], 21.8–192
Rezultaty issledovaniia poliatnoĭ ionosfery po radiosignalam ISZ "Eksplorer-22" [Results of polar ionosphere investigations by means of Explorer-22 radio signals] (*with* **Mitiakov, N. A.** and **Cherepovitskiĭ, V. A.**) [and English transl.], 21.3–39

Mitra, A. P.
Nitric oxide in the mesosphere and its variations, 21.6–202
Photochemistry of ozone, 21.12–288

Mitsuta, Yasushi
Application of sonic anemometer–thermometer to the studies of vertical eddy transport processes in the atmospheric boundary layer, 21.5–123

Severe wind storm caused by the second Miyakojima Typhoon (*with* **Miyata, K.** and **Yoshizumi, S.**), 21.10–248
Wind disasters caused by small scale disturbances, 21.10–252
See also **Ishizaki, Hatsuo,** 21.10–332; **Sano, Y.,** 21.5–129

Mitsuyasu, Hisashi
Note on the nonlinear energy transfer in the spectrum of wind-generated waves, 21.2–782

Mixon, Aubrey C.
Effect of full and restricted Sun exposure on curing peanuts (*with* **Mott, P. A.**), 21.6–357

Miyake, M., *see* **Businger, J. A.,** 21.1–489

Miyake, Y.
Carbon dioxide in the surface water and the atmosphere in the Pacific, the Indian and the Antarctic Ocean areas (*with* **Sugimura, Y.**), 21.4–43
Study on plutonium fallout (*with others*), 21.12–346

Miyakoda, K.
Extended prediction with a nine-level global model on the Kurihara-grid (*with others*), 21.3–274
Numerical simulation of the breakdown of a polar–night vortex in the stratosphere (*with* **Strickler, R. F.** and **Hembree, G. D.**), 21.6–297
See also **Smagorinsky, J.,** 21.3–247

Miyamoto, Minoru
Comparison of temperatures between Kagoshima and Akune, 21.10–98R

Miyashita, Ikihiko, *see* **Hayashi, S.,** 21.5–10

Miyazaki, Shigeru
Probe impedance loss in the cold magnetoplasma, 21.12–123

Miyazawa, Seizi
Mesoclimatological study on heavy snowfall, 21.6–617

Miyazono, S.
Forecasting technique of fog in Kyūshū's west coast and its adjacent sea, 21.6–140
Radar reports and aerological data in heavy rain forecast in the Kyushu District, 21.11–118

Mizun, Iu. G.
Ponizhenie intensivnosti kosmicheskikh luchei i sostoianie oblasti F ionosfery i magnitnogo polia Zemli [Drop in cosmic-ray intensity and the state of the F-region of the ionosphere and of the geomagnetic field], 21.9–233

Mkhitarian, A. M.
Vlago- i teploobmen nad vodoemami sucheĭ v gornykh usloviiakh [Moisture- and heat transfer over reservoirs and land in mountain terrains], 21.4–204

Mociornita, C.
Relations entre les éléments des hydrogrammes de la crue et certaines caractéristiques morphométriques sur le territoire de la République Socialiste de Roumanie [Relation between the elements of flood hydrographs and certain morphometric characteristics in Rumania], 21.7–802

Moe, Kenneth, *see* **Moe, M. M.,** 21.3–58

Moe, Mildred M.
Roles of kinetic theory and gas-surface interactions in measurements of upper-atmospheric density (*with* **Moe, K.**), 21.3–58

Moe, O. Kjeldseth
Model for the penumbra of sunspots (*with* **Maltby, P.**), 21.9–537
On the magnetic–field configuration in sunspots, 21.1–694

Möller, F.
Entwicklungslinien in der meteorologischen Strahlungsforschung [Trends in meteorological radiation research], 21.10–264

Moerikofer, W.
Beurteilung und Klassifikation von Klimakurorten [Evaluation and classification of health resort climates], 21.8–552

Mörth, H. T.
Study of the areal and temporal variations of rainfall in East Africa, 21.9–303

Moffat, A. J.
Recent progress in the remote detection of vapors and gaseous pollutants (*with* **Barringer, A. R.**), 21.12–249

Moffatt, Ronald E. (ed.), *see* **World Data Center A (for) Oceanography,** 21.10–60R, –61R

Moffett, R. J.
Heating of a planetary thermosphere: effects of non-linear flow conductance terms and of convective terms, 21.8–155
Sodium distribution in the terrestrial upper atmosphere, 21.7–132

Moffitt, B. J., *see* **Murray, R.,** 21.5–499

Mogensen, O.
Positron annihilation in the water–ice system, 21.8–803

Mogilevskiĭ, E. I.
On the structure of the magnetic field of sunspots (*with others*), 21.1–695

Mohamed, I. S., *see* **Ateshian, K. H.**, 21.8–678

Mohammedi Mohammed, Juma
- General water conditions in Afghanistan, 21.11–95R

Mohnen, V. A.
- General review and survey of gas-to-particle conversions (*with* **Lodge, J. P., Jr.**), 21.12–504
- *See also* **Rich, T. A.**, 21.12–520

Mohnen, Volker
- On the nature of tropospheric ions, 21.9–428

Moiseenko, Iu. I.
- Avtomaticheskaia mnogotochechnaia sistema dlia izmereniia mikrofizicheskikh kharakteristik tumana v eksperimental'nykh ustanovkakh [An automatic multipoint system for measuring microphysical characteristics of fogs in experimental assemblies] (*with* **Shchelchkov, G. I.**), 21.3–204

Moiseev, I., *see* **Efanov, V.**, 21.4–444; **Tulinov, V. F.**, 21.6–421

Moiseeva, E. V., *see* **Bezverkhnii, Sh. A.**, 21.12–413

Moissiu, Constanttin
- Considerații hidrochimice privind apele freatice din Dobrogea de sud [Hydrochemcial considerations on groundwaters in southern Dobrudja], 21.4–555

Mok, Chi Hung
- Cumulative damage concept in rain erosion study, 21.4–287

Mokievskiĭ, K. A.
- Zavisimost' fotosinteza pogruzhennoĭ vodnoĭ rastitel'nosti ot intensivnosti pronikaiușhcheĭ radiatsii [Dependence of the photosynthesis of submerged water plants upon the intensity of penetrating radiation] (*with* **Rychkova, M. A.**), 21.1–459

Mokievskii, V. M.
- Primenenie aerofotos"emki dlia otsenki sostoianiia posevov sel'skokhoziaistvennykh, kul'tur [The use of aerial photography for evaluating the conditions of agricultural plants] (*with* **Ogorodnikov, B. I.**), 21.8–681

Mokliak, V. I.
- Metodicheskie osnovy postroeniia gidrografov vysokikh polovodii [Methodical basis for the construction of flood hydrographs] (*with* **Shkriabii, P. A.**), 21.12–671
- O koeffitsientakh dobeganiia raskhodov vody [Flow time coefficients of water discharges] (*with* **Shcherbak, L. V.**), 21.12–674
- Raschety raskhodov polovod'ia na EVM "Promin" [Calculations of high water discharges on the electronic digital computer "Promin"] (*with* **Snesareva, N. S.**), 21.12–672
- Raschety raskhodov vody v rekakh po vodootdache s basseina [Calculations of water discharges in rivers on the basis of water drainage from the basin], 21.12–675

Molchanov, A. M.
- Reality of resonances in the solar system, 21.6–693
- Resonant structure of the solar system, 21.10–599

Molchanova, L. A., *see* **Bolgurtsev, B. N.**, 21.4–714

Moldt, R. G., *see* **Rowlandson, L. G.**, 21.4–78

Molga, Marian
- Studium agrometeorologiczne and geograficznym rozkładem wody w glebie na poczatku okresu wegetacyjnego w Polsce [Agrometeorologic study on geographical distribution of soil water at the beginning of the vegetative period in Poland], 21.8–493

Molina García, Héctor
- General water conditions of Honduras (*with* **Sierra Pineda, W.**), 21.11–95R

Molina, Medardo
- Extension of rainfall records by interstation correlation, 21.11–22

Molitvin, P. V.
- O roli karstovykh rek v obvodnenii Severoural'skikh boksitovykh rudnikov [The role of karst rivers in the water drainage of North Ural bauxite deposits], 21.11–714
- Opyty po izucheniiu vzaimosviazi poverkhnostnykh i podzemnukh karstovykh vod v basseine r. Ai [Experience in the study of interaction of surface and underground waters of the karst region in the Ai River basin], 21.11–702

Mollo-Christensen, Erik
- Research on the dynamics of the small-scale processes of air–sea interaction, 21.8–6
- Research on the planetary boundary layer, 21.6–287
- *See also* **Seesholtz, J. R.**, 21.2–231

Mollov, D., *see* **Ĭotov, Il. G.**, 21.6–772

Molodenskiĭ, M. M.
O nakhozhdenii energeticheskogo raspredeleniia elektronov po spektru ikh sinkhrotronnogo izlucheniia [The finding of the energetic distribution of electrons by the spectrum of their synchrotron radiation], 21.1–663
Molodykh, V. P., *see* **Zhelezniak, I. A.**, 21.4–586
Molosnova, T. I.
O chislennom kriterii, opredeliaiushchem otsutstvie ili nalichie fronta nad rassmatrivaemoĭ territorieĭ [The numerical criterion determining the absence or presence of front over the territory under consideration], 21.2–105
Momiyama, Masako
Medico-climatological study in moderation of mortality seasonal variation: a chronological process of mortality seasonal variation by region in U.S.A. (*with* **Katayama, K.**), 21.9–388
Medico-climatological study in the seasonal variation of mortality in the United States of America, Pt. 2, Signs of "de-seasonality" seen in mortality (*with* **Katayama, K.**), 21.9–389
Study in correlation between mortality and temperature (*with* **Katayama, K.**), 21.7–430
See also **Katayama, K.**, 21.6–655
Momose, Etsuya
Analysis and forecasting of snowfall due to winter monsoon to Nagano Prefecture, 21.10–72R
Monahan, Edward C.
Fresh water whitecaps, 21.6–799
Laboratory comparison of fresh-water and salt-water whitecaps (*with* **Zietlow, C. R.**), 21.11–778
Monahan, H. H.
Estimates of wind variability between 100 and 900 meters (*with* **Armendariz, M.** and **Lang, V. D.**), 21.3–607
Monin, A. S.
Fundamental'nye sledstviia vzaimodeĭstviia atmosfery i okeana [Fundamental effects of the air–sea interaction], 21.7–4
O predskazuemosti sinopticheskikh protsessov [Predictability of synoptic processes], 21.3–294
On description of micro- and meso-scale phenomena in numerical models of the atmosphere (*with* **Zilitinkevich, S. S.**), 21.3–339
Uravneniia dlia konechnomernykh raspredeleniĭ veroiatnosti polia turbulentnosti [Equations for finite-dimensional prob
ability distributions of a turbulenc
field], 21.7–256
See also **Gavrilin, B. L.**, 21.6–275; **Ivanov, V. I.**, 21.2–765; 21.4–659; **Kolesnikova, V. N.**, 21.2–298
Monition, L., *see* **Castany, G.**, 21.8–789
Monji, Takeshi, *see* **Kakinuma, Tada**
21.12–788
Monk, Robin G.
Thermal relaxation in humid air, 21.6–68
Monsignori Fossi, B. C.
Outstanding Lyman-alpha event (*wi*
Poletto, G. and **Tagliaferri, G. L.**
21.10–674
See also **Godoli, G.**, 21.1–701
Montana. Div. of Air Pollution Contr
and Industrial Hygiene, Helena
Study of air pollution in the Helena–Eas
Helena area (Helena Valley) Oct. 1965
Oct. 1968, 21.11–163
Montes, H., *see* **Herron, T. J.**, 21.6–226
Montgomery, A. J.
Remote sensing of winds and atmospheri
turbulence by cross-correlation of passive opitcal signals, 21.6–13
Montgomery, David N.
Charge-changing collisions between uncharged water drops in an electric fiel
(*with* **Dawson, G. A.**), 21.9–296
Montgomery, Earl F.
Clarification in the identification of certai
lines in the infrared solar spectrum
21.12–647
Montgomery, Michael D.
Penetration of solar energetic protons int
the magnetotail (*with* **Singer, S.**)
21.2–149
Montgomery, T. L., *see* **O'Donnell, Hugh**
21.12–111
Montreal. Graduate School of Commerce
Report on the activities of the Center fo
Arctic Research [of the Institute of Applied Economy], 1969–1970, 21.11–44R
Moody, J. E., *see* **Jones, J. Nick**, 21.7–652
Mooers, C. N. K.
Compilation of observations from moore
current meters and thermographs (and
of complementary oceanographic and atmospheric data), Vol. 2, Oregon continental shelf, Aug.–Sept. 1966 (*with others*), 21.1–719
Moore, Albert M.
Water temperatures in the lower Columbi
River, 21.6–469
Moore, D. J.
[Discussion of] **M. Hino**: Computer ex-

  periment on smoke diffusion over a complicated topography [and Reply by] **Hino** (*with* **James, K. W.**), 21.5–273
Moore, D. R., *see* **Danielson, R. E.**, 21.3–504
Moore, Donald F.
  ESSA and Operation Foresight; a report on ESSA's performance before and during the heavy floods in the Midwest, March–April 1969 (*with others*), 21.8–115
Moore, F. D., III, *see* **Soltanpour, P. N.**, 21.7–319
Moore, John C.
  Development of inexpensive stock water facilities in semi-arid regions, 21.9–617
  See also **Davis, John R.**, 21.7–179
Moore, John E., *see* **Schoff, S. L.**, 21.2–565
Moore, Michael J.
  Experimental investigation of turbulent stratified shearing flow (*with* **Long, R. R.**), 21.11–767
Moore, Patrick
  Space 1969, 21.8–708
Moore, Walter L.
  Effects of watershed changes on streamflow (*with* **Morgan, C. W.**), 21.8–794
Moore, Willard S.
  Oceanic concentrations of 228 radium, 21.9–696
Moos, H. W., *see* **Opal, C. B.**, 21.10–520
Moosburner, Otto, *see* **Stulik, R. S.**, 21.4–531
Morachevskiĭ, V. G.
  Application of the theory of the surface phenomena to the problems of stability of aerodispersion systems, 21.5–575
  On the artificial control of the chain process of raindrop growth in clouds (*with* **Kiriukhin, B. V.**), 21.6–613
  Structure of absorbed layers in atmospheric aerosols, 21.12–250
  See also **Kiriukhin, B. V.**, 21.5–206; **Kokhanovich, M. M.**, 21.10–24R
Moran, J. P., *see* **Hough, G. R.**, 21.4–407
Morawska, Maria
  Wpływ Tatr na kierunek i prędkósc wiatru [Effect of Tatra Massif on directions and velocity of the wind], 21.5–542
  See also **Budziszewska, Elżbieta**, 21.7–509
Mordovina, L. S.
  O zariazhenii oblachnykh chastits [Charging of cloud particles], 21.8–653
Mordukhovich, M. I.
  Izmerenie dispersii fluktuatsiĭ intensivnosti i srednego urovnia amplitudy lazernogo sveta pri rasprostranenii po sil'noneodnorodnoi trasse [Measurement of dispersion of intensity fluctuations and mean amplitude levels of laser light propagating through a strongly inhomogeneous section], 21.10–574
More, Keith A., *see* **Langseth, Marcus G., Jr.**, 21.9–494
More, Rosemary J.
  Basin hydrological cycle, 21.1–548
  Water and crops, 21.1–655
  See also **Chorley, R. J.**, 21.1–267
Moreau, David H.
  Weekly and monthly flows in synthetic hydrology (*with* **Pyatt, E. E.**), 21.12–699
Morel, Pierre
  EOLE constant level balloon flights in the troposphere, 21.5–87
  EOLE–PACIFIC IV field exercise, Pt. 1 (*with others*), 21.3–133
  Perturbation effect of an equatorial wall on the Mintz–Arakawa global circulation model (*with* **Cornen, C.**), 21.6–312
  See also **Fourrier, J.**, 21.6–453; **Sadourny, R.**, 21.3–243
Morel-Seytoux, Hubert J., *see* **Dumas, A. J.**, 21.6–624; **Nakamichi, Hiroshi**, 21.12–194; **Nimmannit, Viboon**, 21.12–195
Moretti, Mauro, *see* **De Maio, A.**, 21.2–745; 21.8–239
Morford, Dean Russell
  Numerical experiments with high-order advective equations, 21.3–227
Morgan, Brian E.
  Rainfall rate sensor, 21.3–206
Morgan, Carl W., *see* **Moore, Walter L.**, 21.8–794
Morgan, Charles O.
  Stiff diagrams of water-quality data programmed for the digital computer (*with* **McNellis, J. M.**), 21.3–740
  See also **Ropes, L. H.**, 21.3–742
Morgan, Griffith
  Laboratory observation of hailstone "lobe" formation following the termination of spongy growth by accretion (*with* **Prodi, F.**), 21.5–641
Morgan, M. A.
  Overland flow and man, 21.1–772
Morgan, M. Granger
  Cross-correlation and cross-spectral methods for drift velocity measurements (*with* **Bowles, K. L.**), 21.8–286
Morgan, R., *see* **Kotik, J.**, 21.2–649
Morgunov, S. P., *see* **Minervin, V. E.**, 21.1–116

- **Mórik, J.**
  - Ausbreitung luftfremder Stoffe in der Umgebung verschiedener Werke [Diffusion of air contaminants in the vicinity of various industrial plants], 21.6–489
  - A levegőegészségügy néhany időszerű kérdése [Some actual problems in air hygiene], 21.7–147
  - *See also* **Kertesz-Sáringer, M.**, 21.5–263
- **Morisawa, Marie**
  - Streams, 21.2–605
- **Morita, Y.**, *see* **Ishikawa, H.**, 21.10–56
- **Moritz, Helmut**
  - On the determination of the potential from gravity disturbances along a fixed direction, 21.7–750
- **Moriyasu, Shigeo**
  - On the anomaly of the sea surface temperature in the East China Sea, Pt. 2, 21.4–745
  - On the change of monthly sea surface temperature in the western North Pacific, Pt. 1, 21.7–849
- **Morkovin, M. V.**
  - Calculation of incompressible turbulent boundary layers: a review of the AFOSR–IFP–Stanford 1968 conference (*with* **Kline, S. J.**), 21.9–195
- **Morley, T. J.**
  - Wind in Dublin City, 21.4–217
- **Morlin, Z.**, *see* **Kertesz-Sáringer, M.**, 21.5–263
- **Moroz, V. I.**
  - Distribution of ammonia on Jupiter (*with* **Cruikshank, D. P.**), 21.7–761
- **Morozhenko, A. V.**
  - Atmosfera Marsa po poliarizatsionnym nabliudeniiam [Mars atmosphere from polarized observations], 21.8–747
- **Morozhenko, N. N.**
  - Vozbuzhdenie geliia v solnechnykh protuberantsakh [Excitation of helium of solar prominences], 21.12–635
- **Morrell, J. R.**, *see* **Armstrong, R. H.**, 21.3–3
- **Morrill, Peter A.**
  - The National Data Buoy Development Project (*with* **Zettel, R. A.**), 21.10–84
- **Morris, D. A.**, *see* **Johnson, A. I.**, 21.10–433
- **Morris, James E.**
  - Climatology of the upper atmosphere (*with* **Miers, B. T.**), 21.7–505; 21.11–478
- **Morris, M. V.**
  - Hydrology education in Canada, 21.6–739
- **Morris, V. F.**, *see* **Chang, C. P.**, 21.7–269
- **Morrison, David**
  - Martian temperatures and thermal properties (*with* **Sagan, C.** and **Pollack, J. B.**), 21.9–515
  - Thermal models and microwave temperatures of the planet Mercury, 21.8–733
- **Morrison, Foster**
  - Advances in rapid orbit prediction and aplications to satellite visibility studies, 21.6–68
- **Morrison, Robert E.**
  - Experimental studies on the optical properties of sea water, 21.5–793
- **Morrison, S. R.**
  - Effect of humidity on swine at temperatures above optimum (*with* **Heitman, H., Jr.** and **Bond, T. E.**), 21.7–521
- **Morrissey, E. G.**
  - Spectral aspects of the use of an airplane as a vertical wind sensor, 21.12–487
- **Morse, Betty-Ann**, *see* **Gross, M. G.**, 21.6–844
- **Morse, F. L.**, *see* **Harris, F. S., Jr.**, 21.12–108
- **Morse, R. N.**
  - Potential for solar distillation in Australia, 21.9–640
- **Morse, William L.**
  - Stream temperature prediction model, 21.11–120
- **Morskoĭ, G. I.**
  - Analiz issledovaniĭ krupnomasshtabnykh vertiakl'nykh dvizheniĭ v atmosfere [Analysis of investigations of large-scale vertical atmospheric motions], 21.2–236
- **Mortier, F.**
  - Utilisation d'un modèle mathématique pour l'étude hydrogéologique appliquée de la Vega de Grenade, Espagne [Use of mathematical model applied to hydrologic studies of the Plain of Grenada, Spain] (*with* **Thomas, R. G.** and **Trac, N. Q.**), 21.2–279
- **Morton, B. R.**
  - Turbulent structure in cumulus models, 21.1–589
- **Morton, Donald C.**, *see* **Jenkins, Edward B.**, 21.11–576
- **Morton, F. I.**
  - Potential evaporation as a manifestation of regional evaporation, 21.7–534
- **Morton, William T.**
  - Study of cloud patterns observed from ESSA-3 satellite photographs and their relationship to sea surface temperatures in the eastern Gulf of Mexico, 21.4–272

Mosby, Håkon
Norwegian Atlantic current, March and December 1965, 21.4–640
Plans for variability studies in the Norwegian Sea, 21.11–758
Mosco, F.
Metodo modificato di analisi numerica dei campi meteorologici, applicato a situazioni di spiccata baroclinità [A modified method of numerical analysis of meteorological fields, applied to baroclinic situations], 21.1–233
Moscow. Tsentral'nyĭ Inst. Prognozov
Podrecznik krótkoterminowych prognoz pogody, Cześć II [Handbook of short-range weather forecasting, Vol. 2], 21.8–80
Moses, Harry
Mathematical urban air pollution models, 21.5–274
See also **Carson, James E.**, 21.7–482
Mosetti, Ferruccio
Problemi di tracciamento in idrologia [Problems of tracing in hydrology], 21.10–681
Richerche oceanografiche nel mare Mediterraneo orientale Augosto 1967 [Oceanographic research in the eastern Mediterranean Sea, August 1967] (*with* **Accerboni, E.** and **Lavenia, A.**), 21.10–793
Mosier, S. R., *see* **Van Allen, J. A.**, 21.3–716
Moskalenko, L. V., *see* **Fomin, L. M.**, 21.8–338
Moskalenko, N. I.
Funktsii spektral'nogo propuskaniia v polosakh parov H_2O, O_3, N_2O i N_2 komponent v atmosfere [Spectral transmission functions in bands of H_2O vapor O_3, N_2O and N_2 components in the atmosphere], 21.7–338
O vliianii temperatury na pogloshchenie ik radiatsii parami H_2O i CO_2 [The temperature effect on infrared absorption of radiation by H_2O and CO_2 vapor] (*with* **Mirumiants, S. O.**), 21.7–339
Moskalev, Iu. D.
Ob empiricheskikh zavisimostiakh dlia prognoza snezhnykh lavin i o snegolavinnykh raschetakh [Empirical relationships for the prognosis of snow avalanches and snow avalanche calculations], 21.11–414
Usloviia snegopadov v gorakh Zapadnogo Tian'-Shania v sviazi s problemoĭ lavinoobrazovaniia [The conditions of snow fall in the mountains of Western Tyan Shan in connection with the problem of avalanche formation] (*with* **Efimov, M. K.**), 21.11–394
Moskaleva, I. M.
Osobennosti vertikal'nogo raspredeleniia temperatury v stratosfere nad severnym polushariem v ianvare [Characteristics of the vertical temperature distribution in the stratosphere over the Northern Hemisphere in January], 21.9–252
Moss, R. P.
Ecological background to land-use studies in tropical Africa, with special reference to the West, 21.12–570
Mossop, S. C.
Ice nuclei and ice crystals in maritime clouds near Tasmania, 21.12–505
Mostaghimi, F., *see* **Ungemach, P.**, 21.1–786
Mostertman, L. J.
Education and training in hydrology on an international level, 21.6–740
Moston, R. P., *see* **Johnson, A. I.**, 21.10–433
Moszkowicz, Stanisław, *see* **Kawecki, Arnold**, 21.9–318
Motschka, Otto
Ergebnisse spektraler Lichtmessungen in Braungewassern [Results of spectral light measurements in brownish–red pond waters], 21.12–715
Mott, Paul A., *see* **Mixon, A. C.**, 21.6–357
Moudry, Miloslav, *see* **Němec, J.**, 21.6–628
Moulton, Lyle K.
Estimation of climatic parameters for frost depth prediction (*with* **Schaub, J. H.**), 21.7–444
Study of the relationship between air temperatures and depth of frost penetration as related to pavement performance of West Virginia's highways (*with* **Dubbe, E. C.**), 21.2–193
Mount, Wayne D.
Feasibility and design study for an airborne radiometric system to measure remotely the vertical profile of temperature, humidity, and pressure (*with* **Fow, B. R.**), 21.12–37
Use of millimeter wave radiometry to remotely measure atmospheric stability, 21.11–318
Mousinho, Maria Regina, *see* **Bigarella, J. J.**, 21.6–647
Movchan, B. N.
S. F. Rodionov i ego raboty na El'bruse [Sergey Fedorovich Rodionov and his works on the Elbrus] (*with* **Pavlova,**

E. N. and **Sulakvelidze, G. K.**), 21.11–53R
Mowbray, G. H., *see* **Bird, J. F.**, 21.4–362
Mower, R. W.
  Groundwater discharge toward Great Salt Lake through valley fill in the Jordan Valley, Utah, 21.2–563
  Groundwater inflow toward Jordan Valley through channel fill in seven canyons in the Wasatch Range near Salt Lake City, Utah, 21.4–565
  See also **Hely, A. G.**, 21.8–515
Moyer, V. E., *see* **Scoggins, James R.**, 21.11–230
Mozer, F. S.
  Instrumentation for measuring electric fields in space, 21.6–121
  Magnetospheric electric field measurements with balloons (*with* **Serlin, R.**), 21.4–385
Mozer, M., *see* **Mayer, U.**, 21.9–237
Mozhaeva, V. E., *see* **Kariagina, Z. V.**, 21.6–389
Mrose, Helmut
  Bestimmung des Kohlenwasserstoffgehaltes der Luft mit Hilfe der Gaschromatographie [Estimation of atmospheric carbon by means of gas chromatography], 21.3–323
  SO_2 Registrierungen am Rande einer Grosstadt: Vergleich zwischen Tal und Höhenlage [SO_2 measurements at points on the periphery of a large city: comparison between valley and elevated locations] (*with* **Warmbt, W.**), 21.12–251
Muchnik, V. M., *see* **Diachuk, V. A.**, 21.10–499; **Volynets, L. M.**, 21.4–281; **Zaboltskaia, T. N.**, 21.10–378
Muckel, Dean C., *see* **Tovey, Rhys**, 21.7–538
Mudd, J. B.
  Reaction of ozone with amino acids and proteins (*with others*), 21.7–128
Mühleck, Heinz
  General water scheme: an essential basis for the rational use of water resources, 21.9–564
Mühleisen, R.
  Der Elektrodeneffekt beim luftelektrischen Feld über dem Meer: Vorausbericht aus den "Meteor"—Forschungsergebnissen Atlantische Expedition 1969 (GARP) [The electrode effect in an aeroelectric field over the sea: preliminary report on the Meteor research results of the Atlantic Expedition, 1969 (GARP)], 21.8–601
  Luftelektrische Untersuchungen auf dem Atlantischen Ozean in den Jahren 1965 und 1966 [Study of atmospheric electrical parameters in the Atlantic Ocean during 1965 and 1966], 21.8–500
  See also **Riekert, Horst**, 21.12–119; **Takeuchi, T.**, 21.9–432
Müller, F.
  Canada: glacier research, 21.3–749
  See also **Ommanney, C. S. L.**, 21.1–758
Müller, Hans Gerhard, *see* **Deutsche Versuchsanstalt für Luft- und Raumfahrt e.V., Munich**, 21.6–155; **Fimpel, H. P.**, 21.1–94
Mueller, Marti
  Hurricane seeding, 21.4–30
Mueller, Peter K., *see* **Serat, W. F.**, 21.5–285
Müller, Walter
  Bericht über den V. Internationalen biometeorologischen Kongress, 31. August bis 6. September 1969 in Montreux [Report on the Fifth International Biometeorological Congress, Montreaux, Aug. 31–Sept. 6, 1969], 21.8–553
  Gultigkeit von Tagesmitteln der Erdbodenund class A Wannen-Wassertemperaturen bei Berechnung aus ausgewahlten Terminen [Representativeness of daily mean values of soil and Class A pan water temperatures in calculations based upon selected sampling schedules], 21.12–459
  Über den Einfluss meteorologischer Bedingungen auf die Gefrierkerndichte der Luft [Influence of different meteorological conditions on the concentration of freezing nuclei], 21.5–580
  Oszillationen agrarklimatischer Grössen im April im östlichen Österreich [Fluctuation of agroclimatic parameters during April in East Austria], 21.9–390
Müller-Krumbhaar, H.
  Neutron and gamma activated nucleation of Tyndall-flowers in ice, 21.6–810
Münch, G., *see* **Trafton, L. M.**, 21.4–484
Mugica, Ramon
  Ondas internas en el mar norte del Perú [Internal waves in the sea north of Peru], 21.9–748
Muggleton, L. M.
  Secular variation in F-region response to sunspot number, 21.7–197
Mukae, M.
  Climatological study on the vertical structure of the atmosphere around Japan in

the winters of 1956–1965 (*with* **Tsuchiya, K.** and **Kuboki, K.**), 21.10–471

Mukai, Mitsugi, *see* **Thomas, J. F.,** 21.6–186

Mukhamedova, S. Iu.
Eksperimental'nye dannye k gigienicheskomu normirovaniiu butifosa v atmosfernom vozdukhe [Experimental data for hygienic standardization of butyphose in the atmosphere], 21.11–473

Mukherjee, A. K.
Satellite study of a Bay cyclone (*with* **Misra, P. K.**), 21.7–296
Westward moving sea level low pressure systems in the south Bay of Bengal during southwest monsoon (*with* **Natarajan, G.**), 21.6–330

Mukherjee, B. K.
Moisture content in lower air layers and associated day-to-day rainfall in Gangetic West Bengal during southwest monsoon season, 21.6–537
See also **Roy, A. K.,** 21.7–590

Mukhin, V. M.
Primenenie empiricheskikh ortogonal'nykh funktsiĭ k reĭsovym prognozam minimal'nykh urovneĭ vody [Using empirical orthogonal function in traveltime forecasts of minimum water levels], 21.2–545
Reshenie nekotorykh obratnykh zadach v gidrologii pri pomoshchi reguliariziruiushchikh algoritmov [Solution of some inverse problems in hydrology by means of regulating algorithms], 21.12–656

Mukhina, L. I., *see* **Kornilov, B. A.,** 21.8–690

Mukunda Rao, M., *see* **Mechtly, E. A.,** 21.11–203

Muldrew, D. B.
Properties of high-latitude ionospheric ducts deduced from Alouette-II hop echoes (*with* **Hagg, E. L.**), 21.10–176

Mullamaa, Iu. A. R.
O statisticheskikh kharakteristikakh radiatsionnogo polia oblachnosto neba [Statistical characteristics of the short-wave radiation field in the presence of clouds] (*with others*), 21.12–419

Mullaney, G. J.
Study of fog clearing using a CO_2 laser (*with* **Christiansen, W. H.** and **Russell, D. A.**), 21.7–113

Mullen, John F.
VHF atmospheric studies and communications and navigation systems, 21.10–65

Muller, F. B.
Interactive influences on lake breezes at Toronto, Canada, 21.5–507

Muller, Fritz
Was the Good Friday Glacier on Axel Heiberg Island surging?, 21.10–781

Muller, Paul M.
Information from deep-space tracking (*with* **Sjogren, W. L.**), 21.12–105

Muller, W.
Role and measurement of dew, 21.2–250

Mumanenko, A. F.
Primenenie metoda Zaĭtseva dlia opredeleniia vodnosti tumanov v kamerakh [The use of the Zaitsev method for determining the water content of fogs in chambers], 21.3–205

Muminov, F. A.
Radiatsionnyĭ rezhim i teplovoĭ balans khlopkovogo polia i urozhaĭ khlopchatnika [The radiation regime and the heat balance of the cotton field and the cotton yield], 21.1–417

Munk, W. H.
Deep-sea tides, 21.11–781

Munk, Walter, *see* **Cartwright, D.,** 21.4–766

Munn, R. E.
Pollution wind-rose analysis, 21.7–148
Recent Canadian trends in air pollution meteorology (*with* **Hirt, M. S.**), 21.7–149
Research in urban climatology in the Atmospheric Research Section, Meteorological Service of Canada, 21.4–354

Muradov, A.
K temperaturnoi zavisimosti skorosti fotoionizatsii v verkhnei atmosfere [Temperature dependence of photoionization rate in the upper atmosphere] (*with* **Fatkullin, M. N.**), 21.8–193

Murai, Keizo
Spectra measurements of direct solar radiation and of the Sun's aureole, Pt. 2, 21.6–372

Murakami, R.
Effect of grass-grown and straw-mulch on soil moisture, 21.11–439

Murakami, Takio
Initial adjustment of data in the tropics, 21.11–258

Murakoshi, Nozomi
Report of the summer party of the 10th Japanese Antarctic Research Expedition in 1968–1969, 21.12–54

Murayama, Masayoshi
Report of the wintering party of the 9th

Japanese Antarctic Research Expedition, 21.12–55
Murcía, Andrés
Obtaining underground water for irrigation by the Instituto Nacional de Colonización (Spain), 21.6–774
Murcray, D. G.
Distribution of water vapor in the stratosphere as derived from setting sun absorption data (*with* **Kyle, T. G.** and **Williams, W. J.**), 21.7–523
Infrared solar spectrum as observed from balloons (*with others*), 21.10–665
Measurement of the solar constant from high altitude balloons (*with others*), 21.6–360; 21.10–269
Variation of the infrared solar spectrum between 700 cm^{-1} and 2240 cm^{-1} with altitude (*with others*), 21.10–666
See also **Kosters, J. J.**, 21.3–514
Murcray, W. B.
Intensity ratio of the 6300 Å and 5577 Å OI emissions in quiet aurora, 21.11–536
Murgai, M. P., *see* **Varma, R. K.**, 21.11–354
Murgatroyd, R. J.
Estimations from geostrophic trajectories of horizontal diffusivity in the mid-latitude troposphere and lower stratosphere, 21.1–494
Note on the contributions of mean and eddy terms to the momentum and heat balances of the troposphere and lower stratosphere, 21.1–392
Murínová, Galinda
Vlhkostné pomery v Bratislave [Humidity regime at Bratislava], 21.10–357
Murman, Earll M.
Experimental studies of a laminar hypersonic cone wake, 21.8–667
Muromtsev, A. M.
Razvitie okeanograficheskikh issledovanii v SSSR [Development of oceanographic investigations in the U.S.S.R.], 21.12–736
Murphy, Allan H.
Measures of the utility of probabilistic predictions in cost–loss ratio decision situations in which knowledge of the cost–loss ratios is incomplete, 21.5–183
On expected-utility measures in cost–loss ratio decision situations, 21.6–148
See also **Winkler, R. L.**, 21.6–131
Murr, K.
Hydrologische Forschungsstation in Saudi-Arabien [A hydrological research station in Saudi Arabia], 21.3–97; 21.6–746
Murray, C. N.
Solubility of gases in distilled water and sea water, Pt. 1 (*with* **Riley, J. P.** and **Wilson, T. R. S.**), 21.4–681; Pt. 2 (*with* **Riley, J. P.**), 21.4–682; Pt. 3 (*with* **Riley, J. P.**), 21.12–750
Murray, F. W.
Numerical models of a tropical cumulus cloud with bilateral and axial symmetry, 21.5–598
Murray, J. E., *see* **U. S. Coast Guard**, 21.3–750
Murray, James A.
Measuring pesticide drift at distances to four miles (*with* **Vaughan, L. M.**), 21.6–179
Murray, R.
Monthly patterns of the quasi-biennial pressure oscillation (*with* **Moffitt, B. J.**), 21.5–499
Prediction of monthly rainfall over England and Wales from 15-day and monthly mean troughs at 500 mb, 21.3–260
Some computations of meridional flow, angular momentum and energy in the atmosphere based on IGY data for latitude 30°N (*with* **Parker, A. E.** and **Collison, P.**), 21.1–393
Summer weather of 1968 (*with* **Ratcliffe, R. A. S.**), 21.5–70
Murri, Alfredo
Climatologia delle irruzioni di aria fredda da nord e nord-est nella regione marchigiana [Climatology of sudden occurrences of cold air from the north and northeast in the region of the Marches], 21.7–313
See also **Gualtieri, G.**, 21.4–377
Murrow, Harold N.
Application of decelerators to atmospheric probes, 21.12–40
Murty, R. C.
Microbarographic observation of acoustic gravity waves (*with* **Curry, M. J.**), 21.5–497
Murty, T. S.
Estimation of the intensity of upwelling in the Cromwell current (*with* **Taylor, J. D.**), 21.9–721
See also **Rao, Desiraju B.**, 21.12–482
Murzin, A. I.
K voprosu o metodike raschetov ekonomicheskoĭ effektivnosti dolgosrochnykh ledovykh prognozov [Method of computation of economic efficiency of long-range forecasts of ice conditions] (*with others*), 21.4–614
Musaelian, S. M.
Some problems concerning the thermal

regime of rivers in the Araks basin, 21.9–57R

Musil, D. J., *see* **Dennis, A. S.**, 21.8–124

Musman, Steven

The effect of finite resolution on solar granulation, 21.9–528

Mustată, Leonard

Scurgerea maximă pe rìurile din nordul Moldovei produsă în perioada mai–iunie 1965 [Characteristics of the northern Moldova River high-floods between May and June 1965], 21.9–347

Mustel', E. R.

Effect of solar activity on the lower atmospheric layers [Transl. from Russian], 21.4–496

O vozdeĭstvii korpuskuliarnykh potokov na atmosfernuiu tsirkuliatsiiu Zemli, I, Kharakter izmeneniĭ atmosfernogo davleniia dlia razlichnykh sezonov [Influence of corpuscular streams upon the atmospheric circulation of the Earth, Pt. 1, The character of the atmospheric pressure variations for different seasons], 21.7–427

Origin of the solar wind and its astrophysical aspects, 21.9–222

Mustonen, Seppo E.

Estimating evapotranspiration in a humid region (*with* **McGuiness, J. L.**), 21.1–555

Mutuliavichius, V. P., *see* **Garbaliauskas, Ch. A.**, 21.1–203

Muturi, Stachys, N.

Environmental effects on pyrethrins content of pyrethrum, 21.10–463

Influence of soil moisture tension on the internal water balance of beans, 21.9–357

Muzalevskiĭ, Iu. S., *see* **Zhukov, L. V.**, 21.5–716

Mwakha, E.

Observations on the effect of temperature on the growth of *Trifolium semipilosum* Fres, 21.5–472

Myers, J. M., *see* **Baird, C. D.**, 21.9–69

Myers, V., *see* **Latham, J.**, 21.5–627

Myers, Vance A.

Estimation of extreme precipitation as a basis for design floods, 21.6–611

Myint, Kyaw

Simple method of flood forecasting for the Irrawaddy lower reach, 21.12–677

Mykland, N., *see* **Maltby, P.**, 21.9–535

Myrup, Leonard O.

Numerical model of the urban heat island, 21.4–355

Turbulence spectra in stable and convective layers in the free atmosphere, 21.4–200

Myttenaere, C.

Relative importance of soil and water in the indirect contamination of flooded rice with radiocaesium (*with* **Bourdeau, P.** and **Masset, P.**), 21.3–706

N

NASSA

Some meteorological observations, 21.8–1

NATO Advanced Study Institute, Agricultural College of Norway 1968

Atmospheric emissions: Proceedings of the Institute, 21.7–358

NCAR Quarterly [Boulder, Colo.]

Balloons, buoys and satellites, 21.9–198

Joint Hail Research Project, 21.4–300

Sampling the upper atmosphere, 21.7–162

Southern Hemisphere climatic atlas, 21.5–662

Nace, Raymond L.

Arrogance toward the landscape: a problem in water planning, 21.9–619

Human use of ground water, 21.1–780

World water inventory and control, 21.1–549

Nacházel, K.

Correlation and spectral properties of hydrologic regime and possibilities of their simulation as stochastic processes, 21.2–522

Nader, John S.

Volumetric measurement of ultraviolet energy in an urban atmosphere (*with* **White, N.**), 21.5–108

Nadgir, S. B., *see* **Sachdev, R. N.**, 21.4–207

Nadibaidze, N. F., *see* **Dobryshman, E. M.**, 21.4–126

Nagai, T.

Abnormally high summer temperatures in the Nagoya area (*with others*), 21.7–431

Nagao, Masashi

On the probability of water-shortage in a river system with a reservoir, 21.11–697

See also **Ishihara, Yasuo**, 21.11–689, –718

Nagaraja Rao, C. R.

Atlas of polarization features of light reflected by desert sand, white sand and soil (*with* **Chen, H. S.**), 21.8–594

Balloon measurements of the polarization of light diffusely reflected by the Earth's atmosphere, 21.8–595

Nagasawa, K., *see* **Hirose, H.**, 21.11–620

Nagata, Yutaka

Detailed temperature cross section of the cold-water belt along the northern edge of the Kuroshio, 21.10–814

Nagatani, Ronald M.
  Dynamic influences of diabatic heat sinks and the Himalayan Mountain range on the vertical motion field over India, 21.5–374

Nagel, Friedrich
  Die Sichtweite in den westdeutschen Küstengewässern und im Kattegat [Visibility in the West German coastal waters and in the Kattegat], 21.6–671

Nagle, Roland E., *see* **Clark, J. R.**, 21.5–92

Nagnibeda, V. G.
  Properties of sources of the slowly varying component of 2 cm solar radio emission, 21.4–450

Nagy, A. F., *see* **Banks, P. M.**, 21.12–277; **Hays, P. B.**, 21.3–561; **Walker, James C. G.**, 21.12–282

Naĭdenova, N. Ia., *see* **Dvinskikh, N. I.**, 21.9–156

Nair, D. K., *see* **Srivastava, P. S.**, 21.10–832

Naito, Keikichi
  Vertical distribution of aerosol in the lower atmosphere observed by a lidar (*with* **Tabata, I.** and **Yokota, Y.**), 21.3–92

Nakada, M. P.
  A study of the composition of the lower solar corona, 21.9–554

Nakagawa, Shigeo
  Semiconductor counter telescopes for space applications, 21.11–296

Nakagawa, Y.
  An axisymmetric magnetic field with differential rotations in a spherical fluid shell, Pt. 2, 21.12–643
  Periodic structures in quiescent prominences (*with* **Malville, J. McK.**), 21.12–636
  See also **Kato, Shoji**, 21.8–753

Nakagawa, Yoshinari, *see* **Altschuler, M. D.**, 21.1–691

Nakajima, Chotaro
  Heavy rainfall in July 1967 (*with* **Gocho, Y.**), 21.11–387
  Meteorological observation on a glacier in Eastern Himalaya during the pre-monsoon season in 1967 (*with* **Higuchi, H.**), 21.11–60
  Studies on heavy rainfall, Pt. 1 (*with others*), 21.11–381

Nakamichi, Hiroshi
  Suitability of the upper Colorado River Basin for precipitation management (*with* **Morel-Seytoux, H. J.**), 21.12–194

Nakamura, Junji
  Ionospheric wind and diffusion detected by the sodium cloud method (*with* **Kimura, H.**), 21.8–194

Nakamura, Kazuo
  Equatorial Westerlies over East Africa and their climatological significance, 21.11–91R

Nakamura, Shigehisa
  Study on vorticity associated with tidal currents, 21.12–805

Nakamura, Tsutomu, *see* **Wakahama, Gorow**, 21.9–342

Nakano, George H., *see* **Heckman, Harry H.**, 21.11–293

Nakasuji, Isao, *see* **Asai, Tomio**, 21.7–233

Nakatani, S.
  Continuous measurements of mobility spectrums of naturally occurring radioactive aerosols, 21.9–286

Nalivkin, D. V.
  "Rasplyvchatye" smerchi i ikh registratsiia ["Diffuse" tornadoes and their recording], 21.2–99

Namba, O.
  A morphological study of the solar granulation (*with* **Diemel, W. E.**), 21.8–762

Namias, Jerome
  Labile Gulf of Alaska cyclone: key to large-scale weather modification elsewhere, 21.7–110
  Late November singularity, 21.2–339
  Long-range forecasting of the atmosphere and its oceanic boundary, 21.2–775
  Macroscale variations in sea-surface temperatures in the North Pacific, 21.5–492

Namgaladze, A. A.
  Sviaz' periodov toroidal'nykh kolebaniĭ s kontsentratsieĭ plazmy v nedipol'noĭ magnitosfere [Relation between periods of toroidal oscillations and plasma concentration in a non-dipole magnetosphere] [and English transl.], 21.4–72
  See also **Briunelli, B. E.**, 21.8–209

Nania, Abele
  Campo barico e vento al suolo nelle tempeste sull' Adriatico: analisi statistica [Barometric field and surface wind during storms in the Adriatic Sea: statistical analysis], 21.5–516
  Il vento e l'attrito esterno nelle burrasche Adriatiche [The wind and external friction during Adriatic gales: statistical analyses (Report No. 4 on Project SABA)], 21.6–500

Naraine, S. S., *see* **Potter, K. E. D.**, 21.11–95R

Narayanan, M. S., *see* **Bhavsar, P. D.,** 21.7–503

Narayanan, V.
  Monsoon squalls over Thumba during the year 1966, 21.7–495

Narcisi, R. S., *see* **Keneshea, T. J.,** 21.7–192

Narovlianskiĭ, Grigoriĭ Iakovlevich
  Aviation climatology, 21.9–58R

Naruse, Renji
  Field experiment on snow melt control, 21.2–275
  See also **Kobayashi, Daiji,** 21.9–341

Nash, G. E., *see* **Lowery, M. D.,** 21.12–659

Nash, S. Bintasant, *see* **Crutcher, H. L.,** 21.4–312

Nassopoulos, Aris, *see* **Anastassiades, M.,** 21.6–253

Nasyrov, G. A.
  Temperatura emissii (OI) 6300 Å po nabliudeniiam v Zvenigorode [Emission temperature (OI) 6300 Å according to observations in Zvenigorod], 21.11–288

Natarajan, G., *see* **Mukherjee, A. K.,** 21.6–330

Nath, John H., *see* **Neshyba, Steve,** 21.10–795

Nathan, Nigel H.
  Airborne turbulence measuring system design study (*with others*), 21.3–136

National Center for Atmospheric Research, Boulder, Colo.
  NCAR Research and Facilities Programs 1968, 21.10–53R
  See also **Colloquium on Internal Gravity and Acoustic Waves. Boulder, Colo., June, 1968,** 21.6–274

National Conference on Aerospace Meteorology, 4th, Las Vegas, Nevada, May 4–7, 1969
  Preprints of papers presented at the Conference, 21.10–9

National Data Buoy Systems Scientific Advisory Meeting, 1st, New London, Conn.
  Proceedings, 21.9–41

National Institute of Oceanography, Wormley, England
  Collected Reprints, 21.11–106R
  Deep water formation in NW Mediterranean ("MEDOC 1969"), trials and use of shipboard computer, 21.3–777

National Research Council, Wash., D. C.
  Useful applications of Earth-oriented satellites: hydrology, 21.9–49

National Research Council, Wash., D. C. Committee on Atmospheric Sciences
  Atmospheric exploration by remote probes, Vol. 1, Summary and Recommendations, 21.10–22

National Research Council, Wash., D. C. Committee on Polar Research
  Report on United States Antarctic research activities, Oct. 1968–Sept. 1969 [and] United States Antarctic research activities planned for Oct. 1969–Sept. 1970, 21.10–50

National Research Council, Wash., D. C. Committee on Water
  Water and choice in the Colorado Basin, 21.4–529

National Research Council, Wash., D. C. Div. of Earth Sciences
  Great Alaska Earthquake of 1964, 21.3–735

National Research Council, Wash., D. C. Div. of Eng.
  Useful applications of Earth-oriented satellites, 21.3–156
  Useful applications of Earth-oriented satellites: forestry–agriculture–geography, 21.7–44
  Useful applications of Earth-oriented satellites: oceanography, 21.7–45

National Science Foundation. Off. of Antarctic Programs, *see* **Antarctic Bibliography [Wash. D. C.],** 21.1–46

National Security Industrial Assn. Ocean Science and Tech. Advisory Comm.
  Proceedings of the 1969 OSTAC annual meeting, Wash., D. C., April 23–24, 1969, 21.4–632

National Symposium on Ocean Sciences and Engineering of Atlantic Shelf, Phil., March 19–20, 1968
  Transactions, 21.11–107R

National Technical Advisory Committee on Water Quality Criteria
  Water quality criteria. Report to the Secretary of the Interior, 21.1–14

Natsukawa, Takako, *see* **Okunishi, Kazuo,** 21.11–716

Nature [London]
  Barrage studies, 21.4–786
  Byelorussian automated weather, 21.6–97
  Climate and the body, 21.7–691
  The crusade against pollution, 21.11–80R
  Environmentally conscious Sweden, 21.2–51
  Experiments in satellites, 21.3–150
  More telescopes urged, 21.4–439
  Next penumbral eclipse, 21.11–572
  Optimism in the air, 21.3–158
  Parachutes over Venus, 21.10–608
  Pioneering solar activity, 21.4–492
  Sun, Moon and oceans, 21.4–425
  World weather systems, 21.4–4

Naugler, Frederic P.
Bathymetry of a Region (PORL-421-2) north of the Hawaiian Ridge, 21.1–727

Naumov, A. P.
O millimetrovom spektre izlucheniia Venery [Millimeter range of radiation spectrum of Venus] (*with* **Kanevskii, M. B.**), 21.10–607
O vrashchatel'nom spektre pogloshcheniia molekul vodianogo para v vozbuzhdennom kolebatel'nom sostoianii [Rotational absorption spectrum of water vapor molecule in excited oscillatory state] [and English transl.], 21.5–550
See also **Viktorova, A. A.**, 21.2–443

Navarro, Augustin
System structure of a national groundwater research plan, 21.9–638

Navrotskiĭ, V. V.
Statisticheskiĭ analiz vremennykh kolebaniĭ temperatury v poverkhnostnom sloe moria [Statistical analysis of temperature time fluctuations in the sea surface layer] (*with* **Filiushkin, B. N.**) [and English transl.], 21.2–700

Nazaretskii, L. N.
Vliianie transformatsii spektra voln na zanosimost' morskikh kanalov [Effect of wind spectrum transformation on the deposit accumulation in sea canals], 21.12–783

Nazarov, A. A., *see* **Koniaev, K. V.**, 21.10–833

Nazarov, G. V.
Otsenka vliianiia khoziaistvennoi deiatel'nosti na vodnyi balans rek basseina Dnepra i iuga Ukrainy [Evaluation of the effect of economic activity on the water balance of the Dnieper basin and southern Ukraine rivers], 21.11–432
See also **Grin, A .M.**, 21.11–357, –424

Nazarov, V. S.
Historical variation of ice conditions in the Kara Sea [Transl. from Russian], 21.6–821
See also **Tauber, G. M.**, 21.12–56

Nazarova, I. V.
Opyt sostavleniia algoritmov avtomaticheskogo kontrolia na EVM ezhednevnykh dannykh vysoty snezhnogo pokrova, kolichestva osadkov i prodolzhitel'nosti solnechnogo siianiia [Experience with the compilation of an algorithm for automatic computer control of daily data on the depth of snow cover, the amount of precipitation and the duration of solar illumination] (*with* **Izmaĭlova, V. N.**), 21.11–401

Nazarova, T. L., *see* **Kazariants, E. S.**, 21.9–319

Nazarova, T. N.
Meteornoe veshchestvo v okrestnosti Zemli [Meteoric matter in the vicinity of the Earth], 21.12–616
Observations of meteoric dust from rockets and satellites, 21.10–639

Nazintsev, Iu. L., *see* **Baranov, G. I.**, 21.4–620

Nazirov, M.
O veroiatnoĭ sviazi ustoichivosti malomoshchnykh kholodnykh iader povyshennogo davleniia nad Fennoskandieĭ s otkloneniiami temperatury poverkhnostnykh vod iugozapadnoĭ chasti Norvezhskogo moria ot normy [Probable relation between stability of weak cold nuclei of high pressure over Fennoscandia and deviations from norms of surface water temperatures in southwest Norway Sea], 21.3–572
Ten' na sputnikovykh fotografiiakh kak istochnik informatsii o vertikal'noĭ protiazhennosti oblakov [Shadow on satellite photographs as a source of information on vertical extent of clouds], 21.2–256

Neacşa, O.
Unele caracteristici termice ale văii Dunării în zona Orşova–Ada Kaleh–Turnu Severin [Several thermal characteristics of the Danube Valley in the Orşova–Ada Haleh–Turnu Severin area] (*with others*), 21.3–548

Neal, Victor T.
Thermal stratification in the Arctic Ocean (*with* **Neshyba, S.** and **Denner, W.**), 21.2–708

Nebol'sin, M. F., *see* **S"edin, V. Ia.**, 21.10–576

Nebraska. Agr. Experiment Station, *see* **Brown, K. W.**, 21.4–231

Nechaeva, N. S.
Calculation of floods waves for a large river system (*with* **Kuchment, L. S.**), 21.9–599
Primer sravneniia dvukh priblizhennykh metodov prognoza ezhednevnykh raskhodov i urovneĭ vody [Example of comparison of two approximate methods of predicting daily water expenditures and levels], 21.2–584

Nedelka, Milan, *see* **Il'ko, Jozef**, 21.9–291

Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek
  Soil–water–plant, 21.8–494
Needham, Joseph
  Clerks and craftsmen in China and the West: lectures and addresses on the history of science and technology, 21.10–10
Nehring, D.
  Ozeanographische Beobachtungen im äquatorialen Atlantik und auf dem Patagonischen Schelf während der 1. Südatlantic-Expedition mit dem Fischereiforschungsschiff "Ernst Haeckel" von August bis Dezember 1966 [Oceanographic observations in the equatorial Atlantic and on the Patagonian shelf during the first South Atlantic expedition with the fisheries research vessel "Ernst Haeckel," August to December, 1966] (*with* **Brosin, H. J.**), 21.7–832
  Untersuchungen uber die Produktivitat der Ostsee, I, Chemisch–biologische Untersuchungen in der mittleren Ostsee und in der Bottensee im April/Mai 1967 [Investigations of the productivity of the Baltic, Pt. 1, Chemical–biological research in the Baltic Sea and the Gulf of Bothnia, April/May 1967] (*with others*), 21.12–747
Neiburger, Morris
  Role of meteorology in the study and control of air pollution, 21.7–150
Neil, J. H., *see* **Voege, F. A.**, 21.4–411
Neishtadt, M. I., *see* **Internatl. Assn. for Quaternary Research, 8th Congress, Paris, 1969**, 21.5–667
Neisser, J.
  Fadinguntersuchungen im dm-Wellenbereich und ihre Beziehungen zur atmosphärischen Struktur [Fading studies in the dm wave range and their relationship to atmospheric structure], 21.1–334
Nekliudov, G. D.
  O rezhime podzemnykh vod Glavnoi griady Krymskikh gor [The regime of underground waters of the main watershed on the Crimean mountains], 21.11–703
Nekrasova, V. I.
  Raschet chisla chasov s temperaturnoĭ vozdukha vyshe ili nizhe opredelennykh predelov po nabliudeniiam v sinopticheskie sroki [Calculation of the number of hours of atmospheric temperature above and below certain limits according to observations made at standard synoptic times], 21.2–179
Nelms, G. L., *see* **Hagg, E. L.**, 21.10–167; **Herzberg, L.**, 21.7–186
Nelson, Gaylord
  Pollution, 21.4–671
Nelson, J. W.
  Micro aspects of Manhattan tornado in Kansas on June 8, 1966, 21.2–100
Nelson, K. W., *see* **Cairns, J. L.**, 21.7–460
Nelson, Morlan W.
  Soil condition measurements as a forecasting parameter (*with* **Clark, J. M.**), 21.10–435
Němcová, Božena
  Klasifikace podnebí na zemi z hlediska elektrotechniky a strojírenství [Classification of global climate from the point of view of construction of electrical and mechanical machines] (*with* **Rychtera, M.**), 21.4–337
Němec, Jaromir
  Peak discharge and time of concentration relation to rain intensity investigated by physical models of watersheds (*with* **Moudry, M.**), 21.6–628
Nemec, Ladislav
  An experimental contribution to the method of calculating the ground level concentration of gaseous pollutants emitted from high stacks, 21.7–485
Nemenko, B. A.
  Opyt opredeleniia 3.4-benzpirena v atmosfernom vozdukhe [In the determination of 3,4-benzopyrene in the atmosphere] (*with* **Mazina, N. A.**) [and English transl.], 21.3–50
Nenov, Ivan
  Nomograma za izchisliavane protsentnata vlaga v pochvata po teglovniia metod [Nomogram of calculating the percentage humidity in soil by the weighting method], 21.10–436
Nepomniashchiĭ, S. I.
  K voprosu metodiki izmereniia temperatury vozdukha [Methods of measuring air temperatures], 21.9–58
Neporent, B. S.
  O fone pogloshcheniia parami vody vblizi 3811 cm^{-1} [Absorption background of water vapor near 3811 cm^{-1}] (*with* **Pokrovskiĭ, A. G.** and **Galin, V. Ia.**) [and English transl.], 21.3–76
Nerobeeva, T. D., *see* **Leonov, M. P.**, 21.1–270
Nerurkar, N. W., *see* **Kasturi Rangan, K.**, 21.9–480
Nerushev, A. F., *see* **Shved, G. M.**, 21.1–452

Neshyba, Stephen, *see* **Neal, V. T.,** 21.2–708
  Moored spar buoys for ocean research (*with* **Young, D. A.** and **Nath, J. H.**), 21.10–795
Nesis, A., *see* **Mattig, W.,** 21.9–527
Ness, Norman F.
  Direct measurements of interplanetary magnetic fields and plasmas, 21.10–286
  Lunar Explorer-35, 21.9–486
  See also **Burlaga, L. F.,** 21.6–400; **Sari, J. W.,** 21.4–432; **Wilcox, J. M.,** 21.2–413
Nesterko, N. A.
  Isophots of the solar corona on September 22, 1968 (*with others*), 21.12–642
Nestorov, Georgi
  Ionnaia kinetika nizhneĭ ionosfery [Ion kinetics of the lower ionosphere], 21.1–674
  Iono-index about the hard emission of the solar active regions (*with* **Letfus, V.**), 21.2–76
  See also **Velinov, P.,** 21.11–213
Netherlands. Institute of Sewage Purification and Industrial Waste Treatment
  State of water pollution in the Netherlands, 21.10–757
Netherlands. Meteorologisch Instituut
  Gemiddelden voor het tijdvak 1951–1960 [Averages for the period 1951–1960], 21.10–450
  Meteorologische en Oceanografische Waarnemingen verricht aan Boord van Nederlandse Lichtschepen in de Noordzee, Vol. 19, 1967 [Meteorological and oceanographical observations carried out aboard Dutch lightship in the North Sea, Vol. 19, 1967], 21.9–178R
  Normalen voor het standaardtijdvak 1931–1960 [Normals for the standard period 1931–1960], 21.10–449
  Synoptic and upper air observations in the Netherlands, Vol. 12, 1967, 21.9–209R
  Synoptic and upper air observations on Netherlands Weatherships and specially equipped selected ships, Vol. 12, 1967, 21.9–208R
  Synoptic and upper air observations on Netherlands Weatherships and specially equipped selected ships, Vol. 13, 1968, 21.8–33
Netherlands. Rijkswaterstaat
  Electronic computation of water levels in rivers during high discharges, 21.9–655
  General water conditions in the Nethe- lands, 21.11–95
Neuberger, Hans
  Principles of climatology: a manual Earth science (*with* **Cahir, J.**), 21.8–5
Neubert, Hermann
  Harry Gravelius: einer der Väter d Gewässerkunde in Deutschland [Har Gravelius: one of the fathers of hydr ogy in Germany] (*with* **Eckholdt, M.** 21.9–151R
Neugebauer, G.
  Mariner 1969: Preliminary results of t infrared radiometer experiment, 21.8–7
Neugebauer, Marcia
  Initial deceleration of solar wind positi ions in the Earth's bow shock, 21.7–377
Neumaïer, Karl, *see* **Klinger, Jurgen,** 21. 802
Neuman, Shlomo P.
  Applicability of current theories of flow leaky aquifers (*with* **Witherspoon,** **A.**), 21.4–560
  Theory of flow in a confined two aquif system (*with* **Witherspoon, P. A.** 21.4–561
Neumann, Charles J.
  Frequency and duration of thunderstorm at Cape Kennedy, Pt. 1, 21.3–479
  Probability of tropical cyclone induce winds at NASA Manned Spacecra Center, 21.3–464; 21.10–83R
  See also **Hope, John R.,** 21.7–292
Neumann, Conrad
  Sea reek, 21.1–576
Neumann, Gerhard
  Equatorial undercurrent in the Atlant Ocean, 21.4–718
Neumann, Jehuda
  Cloud seeding and cloud physics in Israel results and problems (*with* **Gabriel,** **R.** and **Gagin, A.**), 21.8–127
  Equilibrium range spectra of turbulenc 21.5–388
  See also **Cohen, Ariel,** 21.7–710
Neunylov, B. A.
  Study of the rate of decomposition an conversion processes of organic matte tagged with C^{14} in the soil (*with* **Khav kina, N. V.**), 21.10–552
Neupert, Werner M.
  Solar corona above active regions, 21.2–50
  X-rays from the Sun, 21.8–287
Neuwirth, R.
  Die Bedeutung der Ueberwachung de Luftreinheit an Kur- und Hoehen stationen [Significance of air purity mon

itoring at spas and high-altitude stations], 21.7–63

Neužil, Luděk
Polarisation du ciel crépusculaire au niveau de 25 mb [Polarization of the twilight sky at the 25 mb level], 21.9–421
See also **Link, F.**, 21.4–366

Nevada. Univ., Reno. Desert Research Inst. Lab. of Atmospheric Physics, *see* **Chisholm, J.**, 21.6–151

Nevins, T. H. F.
River control in New Zealand with particular reference to the shingle phase, 21.6–783

New York Univ. Dept. of Met. and Oceanog., *see* **Adelfang, S. T.**, 21.2–226

New Zealand Oceanog. Inst.
Oceanic chart series [in] bathymetry, 21.4–694

Newall, Valerie
Better weather forecasts promised, 21.6–298

Newburg, Edward A.
Probabilistic models for radar echo distributions and their relations to turbulence encounters by aircraft, 21.1–117
See also **Arnason, G.**, 21.1–537

Newcomb, R. C.
Effect of tectonic structure on the occurrence of groundwater in the basalt of the Columbia River Group of the Dalles area, Oregon and Washington, 21.4–546

Newell, Homer E.
Management requirements for large field programs, 21.9–8

Newell, John E., *see* **McDonell, J. E.**, 21.1–223

Newell, R. E.
Energy flux and convergence patterns in the lower and middle stratosphere during the IQSY (*with* **Richards, M. E.**), 21.1–384
Interhemispheric mass exchange from meteorological and trace substance observation (*with* **Vincent, D. G.** and **Kidson, J. W.**), 21.10–235
Water vapor pollution in the stratosphere by the supersonic transporter?, 21.12–490
See also **Kidson, J. W.**, 21.1–383

Newfoundland. Memorial Univ., St. Johns Marine Sciences Research Lab.
Report of a scientific advisory group, Aug. 26–30, 1968, 21.4–637

Newkirk, Gordon, Jr.
High Altitude Observatory of the National Center for Atmospheric Research, Boulder, Colorado (*with* **Chronic, H.**), 21.5–37
Influence of magnetic fields on the structure of the solar corona (*with* **Altschuler, M. D.** and **Harvey, J.**), 21.2–502

Newman, L. W.
The Alaska marine weather forecast program, 21.10–96

Newman, M. M.
Lightning discharge simulation and triggered lightning, 21.10–497

Newman, Robert C.
Effect of transverse-variation of solar wind speed on cosmic rays, 21.8–288

Newman, Robert L.
Theoretical investigation of the structure of easterly waves, 21.3–238

Newstead, R. A., *see* **Clegg, P. E.**, 21.8–727

Newton, Chester W.
Convective cloud dynamics: a synopsis, 21.1–590
See also **Palmén, E.**, 21.6–313

Newton, George P.
Atmospheric densities measured by the Explorer-17 density gages (*with* **Horowitz, R.**), 21.5–216
Latitudinal variations in the neutral atmospheric density (*with* **Pelz, D. T.**), 21.3–314
Resolution of the difference between atmospheric density measurements from Explorer-17 satellite by density gage and drag techniques, 21.12–206

Neyama, Y.
Morphology of the subtropical anticyclone, 21.3–486

Nezdiurov, D. F.
100 let pervoĭ instruktsii dlia meteorologicheskikh stantsiĭ [Centenary of the first instruction for meteorological stations], 21.11–670

Nezdiurova, I. S., *see* **Dunskii, V. F.**, 21.9–24R

Nezhikhovskii, R. E.
Nekotorye itogi ekspeditsionnykh vodnobalansovykh issledovanii vesennego polovod' ia v basseine r. Sheloni [Some results of expeditionary water balance investigations of spring flood in the basin of the Shelon River] (*with* **Sakovskaia, N. P.**), 21.12–667

Ngan, Nguen
Profil' linii 10,830 Å na diske solntsa [10,830 Å line profile on the solar disc], 21.12–625

Nguyen, Huu Tuan, *see* **MacPhee, W. T.,** 21.6–764

Nguyen, Manh Duc
  Some results of lightning frequency investigation in Poland during 1966–1967, 21.8–631

Nguyen, Ngoc Thuy
  Osobennosti formirovaniia prilivnykh iavlenii Iuzhno-Kitaiskogo moria [Some peculiarities of the formation of tidal phenomena in the South China Sea], 21.4–762
  Primenenie metoda spektral'nogo anlaiza v predvychislenii prilivov [Application of the method of spectral analysis to the pre-estimation of tides], 21.4–765

Nicholls, J. M.
  Forecasting the movement of isallobars into Eastern England (*with* **Corfield, G. A.**), 21.8–82

Nicholson, J. R.
  Meteorological data catalogue, 21.7–36

Nickel, George H.
  The maintenance of solar differential rotation by two-dimensional turbulence: a numerical model, 21.8–754

Nickerson, J. W.
  Third Conference on Weather Analysis and Forecasting, 21.7–810

Nickola, P. W.
  Area dosage relationships downwind of a point source (*with* **Nutley, N. E.**), 21.12–362
  Improvements in micrometeorological instrumentation, 21.12–87
  Sampler for recording the concentration of airborne zinc sulfide on a real time scale, 21.12–109

Nicola, Farid, *see* **Selim, Mohamed A.,** 21.11–95R

Nicolae, Tatiana
  Considerații asupra regimului hidrologic al lacurilor de pe litoralul românesc al Mării Negre [Considerations on the hydrological regime of the Rumanian seaside lakes of the Black Sea], 21.6–791

Nielsen, Barry C., *see* **Zdunkowski, Wilford G.,** 21.8–106

Nielsen, Klaus W.
  Development and use of an airborne air marker for atmospheric research (*with* **Berry, E. X.**), 21.5–278

Niemi, Sauli P. A.
  On the reliability of the automatic mercury barometer constructed in the department of physics, University of Oulu, evaluated on the basis of cosmic ray pressure co
  rection capability, 21.6–77

Nieres, J. R., *see* **Rousseau, D.,** 21.3–46

Niewiadomski, Michał, *see* **Lityńska, Z**
21.6–149

Niiler, Pearn P.
  On the Ekman divergence in an ocean
  jet, 21.6–845

Niĭlisk, Kh. Iu.
  K voprosu ob utochnenii raschetov tepl
  vogo izlucheniia v atmosfere [The pro
  lem of the accuracy of computation
  thermal radiation in the atmosphere
  21.1–466
  See also **Gradus, L. M.,** 21.1–465; **Kosti**
  noĭ, G. N., 21.6–371

Nikandrov, V. Ia.
  Cloud and fog control, 21.9–59R
  Pervye shagi "meteorologicheskogo de
  v SSSR [First steps in the "meteor
  logical affairs" of the U.S.S.R.], 21.11–

Niketta, Dieter
  Die Zirkulationsanomalie 1947 und d
  Dürre in Deutschland [Circulatio
  anomaly in 1947 and drought in Ger
  many], 21.4–92

Nikiforov, E. G.
  Tsirkuliatsiia atmosfery i konvektsiia
  Arkticheskikh moriakh [Atmospher
  circulation and convection in the Arct
  seas] (*with* **Chaplygin, E. I.** and **Shpa**
  kher, A. O.) [and English transl.
  21.4–707

Nikiforov, P. P.
  O ledovitosti Beringova moria [Ice regim
  of the Bering Sea], 21.2–637

Nikitenko, S. F., *see* **Kremenskaia, N. L**
21.8–417

Nikitinskaia, N. I.
  O spektral'nom raspredelenii energii
  dnevnoĭ osveshchennosti na raznyk
  vysotakh nad urovnem moria v sviazi
  osobennostiami gornykh rasteniĭ [Spec
  tral distribution of energy in daytime il
  lumination at different altitudes in con
  nection with peculiarities of mountai
  plants], 21.1–445

Nikleva, Stephen
  Effect of instability on orographic precipi
  tation over Vancouver Island, 21.1–61

Nikolaev, Iu. M.
  Izmenenie intensivnosti pervichnykh kos
  micheskikh luchei v techenie polutsikl
  solnechnoi aktivnosti [Changes of inter
  sity of primary cosmic rays during th
  half-cycle of solar activity], 21.12–437

O transformatsii elektricheskogo polia pri rasprostranenii i perekhode akusticheskoĭ volny v plazmennye volny [Transformation of the electric field when an acoustic wave being propagated and turned into plasma waves] [and English transl.], 21.3–691

See also **Korobeĭnikov, V. P.**, 21.12–623

Nikolaev, P. N., *see* **Burdakov, F. I.**, 21.1–195

Nikolaeva, Z. I., *see* **Mishchenko, Z. A.**, 21.7–677

Nikol'skaia, N. V., *see* **Kalinin, G. P.**, 21.6–755

Nikol'skii, A. P.

Stömer's theory and modern aeronomy, 21.11–537

Nikol'skiĭ, G. A.

Some problems in the method of analyzing the results of observations of radiation balance components (*with* **Shugaeva, S. G.**), 21.10–34R

See also **Kondrat'ev, K. Ia.**, 21.2–116; 21.6–307; 21.10–27R

Nikol'skiĭ, Gennadiĭ Mikhailovĭch, *see* **Ivanov-Kholodnyi, Gor Semenovich**, 21.9–171

Nikonorova, S. N., *see* **Abal'ian, T. S.**, 21.9–1R

Nil'son, T. A., *see* **Ross, Iu. K.**, 21.1–429

Nilsson, C. S.

Flux of meteors and micrometeoroids in the neighborhood of the Earth (*with* **Southworth, R. B.**), 21.11–602

Nilsson, I., *see* **Eriksson, E.**, 21.4–541

Nilsson, Kaj

On the groundwater conditions in the sedimentary rocks of Scania, 21.4–547

Nilsson, Lars Y.

Excursion to the Verka District, 21.4–542

Short-time variation of the groundwater and its reasons, 21.5–755

Nimereală, Ioan, *see* **Constantinescu, G. P.**, 21.4–537

Nimmannit, Viboon

Regional discrimination of change in runoff (*with* **Morel-Seytoux, H. J.**), 21.12–195

Nind, T. E. W.

Soil Moisture Symposium, 21.2–513

Ninomiya, K.

Dynamical analysis of outflow from tornado-producing thunderstorms as revealed by ATS-111 pictures, 21.12–399

Objective analysis of the thermodynamic field consistent with the energy supply and the cumulus distribution (*with* **Matsumoto, S.**), 21.4–29

On the objective analysis with special regards to the cloud distribution and convective transfer (*with* **Matsumoto, S.**), 21.5–169

See also **Matsumoto, S.**, 21.5–402; 21.6–590

Nir, A., *see* **Gershon, N. D.**, 21.4–570

Nishida, Atsuhiro

Thermal state and effective collision frequency in the solar wind plasma, 21.6–411

Nishida, Koichi, *see* **Tanaka, Kiichi**, 21.10–86R

Nishizaki, Ryo, *see* **Matuura, Nobuo**, 21.11–202

Nishizawa, T., *see* **Arai, T.**, 21.8–437

Nitta, Takashi

Initialization and analysis for the primitive equation model, 21.3–240

Technique of objective analysis and initialization for the primitive forecast equations (*with* **Hovermale, J. B.**), 21.3–239

Nitta, Tsuyoshi

Barotropic instability of the equatorial easterly current (*with* **Yanai, M.**), 21.3–422

Note on the barotropic instability of the tropical easterly current (*with* **Yanai, M.**), 21.4–97

Statistical study of tropospheric wave disturbances in the tropical Pacific region, 21.11–248

Nix, H. A.

An index of crop water stress related to wheat and grain sorghum yields (*with* **Fitzpatrick, E. A.**), 21.9–358

See also **Fitzpatrick, E. A.**, 21.8–487

Nizhnikov, E. A., *see* **Tatarskaia, M. S.**, 21.1–228

Noback, H. (ed.), *see* **Expédition Antarctique Belgo–Néerlandaise, 1965**, 21.10–108R

Nobel Symposium, 9th, Capri, Italy, June 10–12, 1968

Mass motions in solar flares and related phenomena: Proceedings of the . . . Symposium, 21.1–30

See also **Öhman, Yngve**, 21.1–30

Noble, Vincent E.

Airborne temperature surveys of Lake Michigan, October 1966–October 1967 (*with* **Wilkerson, J. C.**), 21.3–575

Sea surface temperature mapping flights:

Norwegian Sea, summer 1968 (*with* **Wilkerson, J. C.**), 21.10–824
See also **Wilkerson, J. C.**, 21.4–184; 21.11–773
Nocentini, Aldo
Diocotron instability in presence of a cold plasma, 21.2–150
Noci, G. G., *see* **Drago, F. G.**, 21.4–442
Noel, J., *see* **Merle, J.**, 21.7–845
Nogina, N. A.
Effect of subzero temperatures on the solubility and mobility of nonsilicate iron (*with* **Lebedeva, I. I.** and **Shurygina, E. A.**), 21.7–457
Noll, G.
Segregation of ammonium fluoride into ice single crystals, 21.6–811
Noll, Kenneth E.
A rotary inertial impactor for sampling giant particles in the atmosphere, 21.12–110
See also **Horvath, Helmuth**, 21.10–476
Nomoto, S.
Statistical study on visibility forecasting, Pt. 1 (*with* **Enoshima, K.**), 21.3–262; Pt. 2 (*with others*), 21.3–263
Statistical study on visibility forecasting, Pt. 3, Correlation–synoptic analyses for evaluation of predictors in 1- to 4-hour forecasting, 21.12–151
Statistical study on visibility forecasting, Pt. 4, Multiple regression equations for short-hour forecast, 21.12–152
Nordberg, William
Development of meteorological satellites in the United States, 21.1–154
Development of meteorological satellites in the United States, 21.5–99
Development of meteorological satellites in the United States and the outlook for future sensing systems, 21.9–60R
Interactions between the upper and lower atmosphere, 21.7–154
Microwave observations of sea state from aircraft (*with* **Conaway, J.** and **Thaddeus, P.**), 21.2–385
Nordin, Carl F., *see* **Rodriguez-Iturbe, Ignacio**, 21.9–313
Nordquist, Walter S., Jr.
Determination of the temperature and pressure of the lifting condensation level, 21.11–34
Norinelli, Armando
Research on natural losses from the aquifer by geoelectrical prospecting, 21.9–646
Norman, J. M.
Photosynthetic light sensor for measurements in plant canopies (*with* **Tanner, C. B.** and **Thurtell, G. W.**), 21.7–49
Transient light measurements in plant canopies, 21.8–57
Norman, K., *see* **Dorling, E. B.**, 21.3–373
Norris, Stanley E.
Hydrology of the Scioto River Valley near Piketon, South-Central Ohio (*with* **Fidler, R. E.**), 21.4–562
North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development
Scatter propagation of radio waves, 21.1–31
North Carolina. Univ. Office of Marine Sciences
Facilities in North Carolina now being used in connection with marine research and development programs and activities, 21.2–651
Report to the Coastal Plains Regional Commission on training and educational programs in North Carolina on marine research and development, 21.2–652
Northrop, Gaylord M.
Analysis of cruise strategies and costs for development of national data buoy systems, 21.8–823
See also **Clem, LeRoy H.**, 21.10–19
Northrop, T. G., *see* **Birmingham, T. J.**, 21.7–364
Northrop, William J.
Kansas River Basin flood control, 21.6–759
Norton, R. B.
Alouette observations taken during middle latitude red arc (*with* **Marovich, E.**), 21.10–518
Norton, R. H.
Astronomy, 21.6–728
Norway. Vassdrags- og Elektrisitetsvesen
Glasiologiske Undersökelser i Norge 1967 [Glaciological research in Norway, 1967], 21.9–210R
See also **Östrem, Gunnar** and **Pytte, Randi**, 21.9–210R
Glasiologiske Undersökelser i Norge 1968 [Glaciological research in Norway, 1968], 21.8–805
Noshkin, V.
Fallout radionuclides and beryllium-7 in over-ocean aerosols, 21.4–82
Radioisotopes, 21.1–732
Novak, Charles S.
Deriving upper tropospheric winds by computer from single image, digital satellite data, 21.3–71
Nováková, E.
Auswertung der atmosphäerischen Radio-

aktivitaet in Mittel-Europa fuer den Zeitraum April 1963 bis Maerz 1964 [Evaluation of atmospheric radioactivity in Central Europe between April 1963 and March 1964] (*with* **Petrovič, Pavel**), 21.1–342

Novikov, A. G.
Nekotorye voprosy ob"ektivnogo analiza agrometeorologischeskoi informatsii i prognoza vlagoobespechennosti iarovoi pshenitsy [Some problems in the objective analysis of agrometeorological information and prognosis of the water availability for spring wheat], 21.8–554
Printsipial'naia skhema kompleksnoĭ avtomatizatsii i mekhanizatsii obrabotki agrometeorologicheskoĭ informatsii [The principal scheme of the complex automation and mechanization of agrometeorological data processing], 21.6–145

Novikov, A. M.
Solnechnye protony v subpoliarnoi stratosfere v period minimuma solnechnoi aktivnosti [Solar protons in the subpolar stratosphere in the period of the solar activity minimum] (*with* **Skriabin, N. G.** and **Shafer, Iu. G.**) [and English transl.], 21.5–464

Novikova, S. P., *see* **Balueva, A. S.**, 21.3–487

Novitskiĭ, V. P.
Vertical structure of water and general features of water circulation in the Black Sea [Transl. from Russian], 21.2–742

Novozhilov, N. I.
Optical edge of noctilucent clouds, 21.8–585
Veter i oblaka v chas voskhoda solntsa [Wind and clouds at sunrise], 21.1–597

Noxon, J. F.
Metastable oxygen: origin of atmospheric absorption near 50 kilometers, 21.10–274

Noyan, Kemal
Turkey (*with others*), 21.11–95R

Noyes, R. W.
Infrared intensity distribution at the solar limb in the 20-micron region, 21.2–508
Solar continuum in the far-infrared and millimeter regions, 21.10–667

Nozadze, R. I., *see* **Mikashavidze, B. A.**, 21.10–349

Nucciotti, Francesco
Composizione chimica delle precipitazioni atmosferiche nella Regione Emiliana, Nota 2, Azoto nitroso, nitrico, ammoniccale e fosforo [Chemical composition of atmospheric precipitation in the Region of Emilia, Note 2, Nitrate, nitrite nitrogen, ammonia and phosphorous] (*with* **Rossi, N.**), 21.5–615
See also **Rosini, Ezio**, 21.11–164
21.11–164

Nudel'man, L. A.
K voprosu o kolebaniiakh tropopauzy [Problem of tropopause fluctuations], 21.12–276
Sovokupnaia korreliatsionnaia sviaz' vysoty tropopauzy s geopotentsialom i temperaturnoĭ izobaricheskikh poverkhnosteĭ [Correlative interrelationship between the height of the tropopause, the geopotential and isobaric surface temperatures], 21.1–316

Nunn, Silas Oscar, III
Study of the oceanic polar front in the Denmark Strait, 21.3–793

Nutley, Naydene E., *see* **Nickola, P. W.**, 21.12–362

Nutman, F. J.
Climatic conditions in relation to the spread of coffee berry disease since 1962 in the East Rift districts of Kenya (*with* **Roberts, F. M.**), 21.10–465

Nutt, D. C., *see* **Coachman, L. K.**, 21.6–831

Nuttonson, Michael Y. (ed.)
Atmospheric and meteorological aspects of air pollution, 21.9–136R

Nuzhdin, B. V.
K teorii obrazovaniia poĭmy i nizkikh akkumuliativnykh rechnykh terras [Theory of the formation of flood plains and low accumulative river terraces], 21.3–744

Nwa, E. U.
Drainage design theory and practice (*with* **Twocock, J. G.**), 21.7–797

Nydal, Reidar
Prospective decrease in atmospheric radiocarbon (*with* **Lovseth, K.**), 21.12–336

Nye, J. F.
The advance and retreat of glaciers, 21.8–519

Nygren, Harley D.
Marine science programs of the Dept. of Commerce (ESSA), 21.3–769

O

OECD Observer [Paris]
Water as a growth factor, 21.12–27R

Oard, Michael J., *see* **Reed, R. J.**, 21.4–242

Obasheva, S. O., *see* **Toropova, T. P.**, 21.8–575

Obbink, J. Groot
Observations of the pressure surface in the aquifer of an irrigation district at Merbein, Australia, 21.10–735
Obrebska-Starklowa, Barbara
Some results of investigations of meso- and microclimatic conditions in small mountain drainage areas in the Beskides (Polish West Carpathians), 21.6–649
Wpływ lasu na mezoklimat w górach na przykładzie stosunków termicznych w Gorcach [Effect of forests on mesoclimate in mountain regions based upon thermal conditions in the Gorce region], 21.6–664
O'Brien, B. J.
Incoming lower energy particles and their association with airglow and aurorae, 21.9–225
O'Brien, Edward E.
Heat flux and temperature variation at a wavy water–air interface (*with* **Omholt, T.**), 21.3–569
O'Brien, Harold W.
Attenuation of visible light by falling snow, 21.4–295
O'Brien, James J.
Alternative solutions to the classical vertical velocity problem, 21.10–347
Response of the ocean to a slowly moving cyclone, 21.7–288
O'Brien, K. G.
Determination of the relative efficiency of an equatorial-mounted solar–energy concentratior in the photoreduction of a solution of lead tetraacetate in acetic acid (*with* **Byrne, R. E.**), 21.2–112
O'Brien, Walter J., *see* **Angino, E. E.**, 21.2–592
O'Bryan, D.
Water, population pressure and ancient Indian migrations (*with* **Cooley, M. E.** and **Winter, T. C.**), 21.2–305
Observatories' Year Book, 1966
Geophysical results obtained from autographic records and eye observations at the Lerwick, Eskdalemuir and Kew Observatories, 21.9–221R, –222R
Obukhov, A. M.
Pole integral'nogo vlagosoderzhaniia atmosfery nad Iuzhnym polushariem po izmereniiam teplovogo radioizlucheniia na sputnike "Kosmos-243" [Field of integral water content in the atmosphere over the Southern Hemisphere from measurements of a thermal microwave radiation on the Cosmos-243 satellite (*with* **Tatarskaia, M. S.**), 21.8–346
Obydennov, G. V., *see* **Pikhtelev, A. I.**, 21.8–703
Oceanic Citation Journal [La Jolla, Calif.]
Battelle Memorial Institute, 21.4–641
University of Rhode Island, 21.3–764
University of Washington, 21.3–765
Ocean Test Range & Instrumentation Conf., OTRAN, Honolulu, June 3–7 1968
Proceedings, 21.2–690
Ochs, G. R.
Studies of atmospheric propagation of laser beams of 5.5, 15, 45 and 145 km paths (*with* **Little, C. G.**), 21.10–575
Ochs, Harry T., III, *see* **Adam, J. R.**, 21.2–363
O'Connell, R. F.
Have the diffuse cosmic X-rays an anisotropic component (*with* **Verma, S. D.**), 21.10–299
O'Conner, Neil F.
Case study of the intertropical convergence zone, 21.6–299
O'Connor, James F.
Hemispheric teleconnections of mean circulation anomalies at 700 millibars, 21.3–434
O'Connor, T. C., *see* **Jennings, S. G.**, 21.12–476
Oda, Minoru
Rocket instrumentation for X-ray and gamma-ray astronomy, 21.8–289
O'Dell, F. W.
Composition of cosmic rays measured in Gemini-11, 21.10–300
Odencrantz, F. Kirk
Apparent confirmation of the transient nature of whiskers on ice crystals, 21.6–615
Temperature dependence of the polarity of electrical charges on ice crystals (*with* **Buecher, R. W.**), 21.8–651
See also **Burkardt, Lohr A.**, 21.11–370; **Finnegan, W. G.**, 21.5–578
O'Donnell, F., *see* **Davis, K. W.**, 21.2–276
O'Donnell, Hugh
Routine assessment of the particle size-weight distribution of urban aerosols (*with others*), 21.12–111
O'Donnell, Terence, *see* **Laurenson, E. M.**, 21.5–750
Ögelman, H. B., *see* **Fichtel, C. E.**, 21.5–696
Öhman, Yngve
Observations of rotational motion in prominences, 21.9–548

  On some flare-sensitive high photospheric and low chromospheric lines, 21.6–732
  On some spectrographic observations related to the structure with height of active regions and particularly solar flares, 21.1–711
  Possible effects of rotation in flares and prominences (*with* **Hosinsky, G.** and **Kusoffsky, U.**), 21.2–489
  See also **Nobel Symposium, 9th, Capri, Italy, June 10–12, 1968,** 21.1–30
Ökland, Hans
  Experimental integration of a 4-level primitive equation model of the atmosphere, 21.5–170
Öpik, Ernst Julius
  Lunar environment, 21.4–477
Oeschger, H., *see* **Loosli, H. H.,** 21.8–213; **Williams, P. M.,** 21.4–672
Östlund, H. Göte
  Absolute in-flight calibration of airborne humidity instruments (*with* **Stearns, R. D.**), 21.5–50
  Tritium in the equatorial Atlantic current system (*with* **Rinkel, M. O.** and **Rooth, C.**), 21.2–719
Oetzel, G. N.
  Radio emissions from close lightning (*with* **Pierce, E. T.**), 21.7–724
Offermann, D.
  Neutral particle density ratios in the thermosphere as derived from mass spectrometric measurements above Sardinia (*with others*), 21.5–318
Ofstad, P., *see* **Jensen, E.,** 21.6–723
Ogawa, Toshio
  Diurnal variations of resonant frequencies in the Earth–ionosphere cavity (*with others*), 21.12–306
  Measurement plan of atmospheric electric field for altitudes between 0 and 60 kilometers (*with* **Tanaka, Y.** and **Tamura, Y.**), 21.10–491
Ogden, T. L.
  Effect on rainfall of a large steelworks, 21.7–620
Ogilvie, K. W.
  Helium abundance in the solar wind (*with* **Wilkerson, T. D.**), 21.11–297
  Hydromagnetic shocks in the solar wind (*with* **Burlaga, L. F.**), 21.9–226
  See also **Burlaga, L. F.,** 21.7–365
Ogimoto, Hiroshi, *see* **Nakajima, Chotaro,** 21.11–381
Ogneva, T. A.
  O mezhdunarodnom simpoziume po meteorologicheskim aspektam zagriazneniia atmosfery [International Symposium on the pollution of the atmosphere], 21.10–143
Ogorodnikov, B. I., *see* **Mokievskii, V. M.,** 21.8–681
Ogorodnikov, S. N.
  O primenenii funkstsiĭ kompleksnogo peremennogo v teorii formirovaniia potokov odoimenno zariazhennykh chastits pri nalichii magnitnogo polia [Use of complex variable functions in the theory of forming fluxes of like charged particles in the presence of magnetic field], 21.7–378
Ogura, Koichi
  Preliminary report on balloon observation of auroral X-rays at Syowa Station, Antarctica, 21.8–290
Ogura, Y.
  Numerical study of convection rolls in a flow between horizontal parallel plates (*with* **Yagihashi, A.**), 21.4–246
  Survey of sea surface temperature of the Tsushima warm current with seaborne and airborne radiation thermometers (GARP–Severe Rainstorm Research Project) (*with others*), 21.6–847
Oguti, T., *see* **Hayashi, K.,** 21.2–382
Ohashi, Gyozo
  General character of groundwater flow in the basin of the River Ta (studies of the groundwater in the Basin of the River Ta. Pt. 1), 21.11–712
Ohki, Ken-Ichiro
  Directivity of solar hard X-ray bursts, 21.8–291
Ohring, George
  High surface temperature on Venus: evaluation of the greenhouse explanation, 21.8–740
  See also **House, F. B.,** 21.4–170
Ohta, S.
  Automatic cloud nuclei counter (*with* **Uchida, E.**), 21.12–99
  See also **Uchida, E.,** 21.7–569
Ohtake, Takeshi
  Electric properties of ice fog crystals (*with* **Suchannek, R. G.**), 21.11–509
  Factors affecting the size distribution of raindrops and snowflakes, 21.11–392
  Unusual crystal in ice fog, 21.12–523
  Visual range in ice fog (*with* **Huffman, P. J.**), 21.3–685
Ohtaki, T.
  Computation of optimum unit pulse response in the convolution integral equation, 21.3–45

Ohtsu, Jinsuke, *see* **Hayakawa, Masashi,** 21.10–203

Ojo, Oyediran
  Potential evapotranspiration and the water balance in West Africa, 21.5–564

Oka, Taro
  Behavior of spring water (Studies of the groundwater in the basin of the River Ta, Pt. 2), (*with others*), 21.11–715

Okabe, Jun Ichi
  Calculations of water level in a tidal lake, 21.10–769
  See also **Yamada, Hikoji,** 21.11–787

Okada, Akihiko, *see* **Shima, M.,** 21.5–286

Okada, Y.
  Elastic defects (residual displacement) of noncorrugated vacuum capsules and the strain distributions on the diaphragms, 21.3–190

Okamura, Yasushi
  Finite-difference scheme for the primitive equation model with special emphasis on the suppression of the two-grid interval noise, 21.3–241

Oke, T. R.
  Towards a more rational understanding of the urban heat island, 21.4–356

Okita, T.
  Filter method for the determination of trace quantities of amines, mercaptans, and organic sulfides in the atmosphere, 21.12–112

Oklahoma. Water Resources Board
  Appraisal of the water and related land resources of Oklahoma [Region 4], 21.4–307

Okołowicz, Wincenty
  Pochodne pojęcia "klimat" i ich skala [Derivatives of the notion "climate" and their scale], 21.5–657

Okubo, Akira
  Note on the effect of dispersion on mean current measurements, 21.4–728
  Oceanic mixing, 21.10–811
  On the prediction of the probability distribution of concentration from hypothetical radioactive sources on the continental slope off the east coast of the U. S., Pt. 2, Prediction of concentration based on a mathematical model for shear diffusion, 21.9–697
  Summary of our present knowledge of the physical processes of mixing in the ocean and coastal waters, and a set of practical guidelines for the application of existing diffusion equations in the preparation of nuclear safety evaluations of the use of nuclear power sources in the sea (*with* **Pritchard, D. W.**), 21.8–842
  See also **Sastry, J. S.,** 21.9–698

Okuda, Mitsunao
  Decrease in intensity of (OI) 6300 Å airglow toward dawn (*with* **Misawa, K.**), 21.8–251
  Predawn enhancement of (OI) 6300 Å airglow (*with* **Misawa, K.**), 21.7–359

Okun, Daniel A., *see* **Weiss, Charles M.,** 21.10–696

Okuneva, S. G., *see* **Afanas'eva, R. F.,** 21.9–241

Okunishi, Kazuo
  Hydrological studies on a small mountainous drainage basin, Pt. 1 (*with* **Natsukawa, T.**), 21.11–716
  In situ measurement of the free energy of soil moisture by small hygrometers, Pt. 1, 21.1–188

Ol', A. I.
  O sviazi mezhdu solnechnoĭ aktivnost'iu i temperaturnym rezhimom severnogo polushariia [Relation between solar activity and the temperature regime of the Northern Hemisphere], 21.4–163
  Vozmushchennost' magnitnogo polia Zemli i ee izmeneniia v 11-letnem tsikle [Perturbations of the geomagnetic field and its variations in the 11-year cycle], 21.5–732
  See also **Bolotinskaia, M. Sh.,** 21.6–291

Olbert, Stanislaw
  Summary of experimental results from M.I.T. detector on IMP-1, 21.7–379

Old, Sylvia M.
  Microclimate, fire and plant production in an Illinois prairie, 21.7–678

Old, T., *see* **Ichikawa, T.,** 21.11–515

Olejnik, K., *see* **Pasławski, Z.,** 21.10–701

Olejník, Štefan
  Porovnanie teploty a vlhkosti vzduchu medzi horskými stanicami a vol'nou atmosférou [A comparison of air temperature and humidity at mountain stations and the free atmosphere], 21.8–531

Olevskaia, S. M.
  Prostranstvenno-vremennaia struktura poleĭ geopotentsiala [Spatial-temporal structure of the geopotential field], 21.6–475

Olintseva-Nebrat, G. G.
  Anomalii baricheskogo polia nad Tikhim okeanom [Pressure pattern anomalies over the Pacific Ocean], 21.2–219
  Primenenie metoda nomogramm Lebedeva k kharakteristikam baricheskogo polia

svobodnoi atmosfery [Use of Lebedev's nomogram method for characterization of the baric field of the free atmosphere], 21.9–253
Olive, Philippe, *see* **Blanc, P.,** 21.6–768
Oliveira, Antonio Sanchez de
Umidade relativa e temperatura do ar: fórmulas usais e fórmulas novas com horários para leituras simultâneas [Relative humidity and air temperature: common and new formulas with schedules for simultaneous reading], 21.7–18
Oliver, John E.
Air mass evaluation of the concept of continentality, 21.10–472
Oliver, Vincent J.
Circulation in the tropics as revealed by satellite data (*with* **Anderson, R. K.**), 21.5–391
Use of satellite pictures for surface and 500-mb chart analyses (*with* **Bittner, F.**), 21.8–48
See also **Anderson, Ralph K.,** 21.7–43
Olmr, J., *see* **Kleczek, J.,** 21.4–448
Olsen, David E.
Forecasting maximum temperatures at Helena, Montana, 21.12–144
Olsen, Robert
Design plan for investigating the atmospheric environment associated with high altitude nuclear testing, 21.1–338
See also **Miers, B. T.,** 21.10–135
Olsen, Wiley S.
A laser profilometer (*with* **Adams, R. M.**), 21.12–746
Olson, C. L.
Effects of turbulence on cloud-droplet collision rates, 21.1–591
Olson, Gerald W.
Using soil surveys for water resource development, 21.8–676
Olson, John V.
High-frequency magnetic fluctuations associated with the Earth's bow shock (*with* **Holzer, R. E.** and **Smith, E. J.**), 21.5–737
Olson, R. H.
Solar–terrestrial research and services in the ESSA Research Laboratories, Environmental Science Services Administration, Boulder, Colo., U.S.A., 21.4–361
Olson, Tamlin C.
Corn yields, soil temperature, and water use with four tillage methods in the western corn belt (*with* **Schoegerl, LaV. S.**), 21.12–460
Olson, W. P.
Shape of the tilted magnetopause, 21.4–73
Olsson, C. N.
Commencement times and durations of Jupiter's radio noise storms (*with others*), 21.8–729
Olund, B., *see* **Kovetz, A.,** 21.4–286
Omar, M. H.
Correlation between potential evapotranspiration and meteorological and evaporimeter data, 21.10–363
Omholt, Anders
Pulsating aurora (*with* **Kvifte, G. J.** and **Pettersen, H.**), 21.10–519
See also **NATO Advanced Study Institute, Agricultural College of Norway, 1968,** 21.7–358
Omholt, Thore, *see* **O'Brien, E. E.,** 21.3–569
Om Kar, Songthara, *see* **Bell, F. C.,** 21.5–650
Ommanney, C. S. L.
Computer analysis of a glacier inventory of Axel Heiberg Island: Canadian Arctic Archipelago (*with* **Goodman, R. H.** and **Miller, F.**), 21.1–758
Ondoh, T., *see* **Matuura, N.,** 21.10–174
See also **Matuura, Nobuo,** 21.10–175
O'Neil, R.
Fluorescence of air and nitrogen excited by energetic electrons (*with* **Davidson, G.**), 21.1–468
Luminous efficiency of electron induced emission in nitrogen (*with* **Davidson, G.**), 21.10–546
O'Neill, Thomas H. R.
World meteorological philately (*with* **Carr, T. R.** and **De Violini, R.**), 21.9–9
Onikul, R. I., *see* **Berliand, M. E.,** 21.9–10R; **Dunskii, V. F.,** 21.9–24R
Onishi, Gaishi
Numerical method for three-dimensional mountain waves, 21.6–530
On the surface wind blowing over a strait, 21.4–214
Ono, A.
Growth mode of ice crystals in natural clouds, 21.11–369
Ono, Nobuo
Thermal properties of sea ice, Pt. 4, 21.2–638
Onufrienko, L. G.
Vodnye resursy i balans vod Ukrainy i Moldavii [Water resources and water balance of the Ukraine and Moldavia], 21.11–422
Oobayashi, Tomonori, *see* **Arakawa, S.,** 21.5–535

Oort, Abraham H.
On the kinetic energy spectrum near the ground (*with* **Taylor, A.**), 21.3–417
See also **Schuurmans, C. J. E.**, 21.6–504

Ooyama, Katsuyuki
Numerical simulation of tropical cyclones with an axisymmetric model, 21.3–467

Opal, C. B.
Far-ultraviolet altitude profiles and molecular oxygen densities in an aurora (*with* **Moos, H. W.** and **Fastie, W. G.**), 21.10–520

Opp, A. G., *see* **Schardt, A. W.**, 21.6–414

Oraevskiĭ, A. N.
Vliianie postoiannykh elektricheskikh i magnitnykh polei na rezonansnoe izluchenie molekul [The effect of constant electric and magnetic fields on resonance molecular radiation], 21.8–702

Ordakowski, Henryk, *see* **Kawecki, Arnold,** 21.9–318

Oregon. State Univ., Corvallis. Dept. of Oceanography
Research activities Oct. 1, 1968–March 31, 1969, 21.2–653

Oregon. State Water Resources Board
Precipitation stations, Oregon: monthly precipitation records on punch cards by calendar and water year through Sept. 1967, 21.8–379

Orel, Vitezslav
Die Stellungnahme G. Mendels zur ersten Herausgabe von Wetterprognosen für Landwirtschaftszwecke [G. Mendel's attitude toward the first dissemination of weather forecasts for agricultural use], 21.6–128

Oren, O. H.
Oceanographic and biological influence of the Suez Canal, the Nile and the Aswan Dam on the Levant Basin, 21.10–830

Oreshina, L. M., *see* **Denisov, Iu. M.**, 21.4–592

Orford, K. J., *see* **Earnshaw, J. D.**, 21.7–404

Orgill, M. M., *see* **Cermak, J. E.**, 21.12–189; **Grant, Lewis O.**, 21.11–145

Orieux, A.
Le problème des gelées printanières dans le Midi Méditerranéen [Problem of spring frosts in the southern Mediterranean] (*with* **Pouget, E.**), 21.12–451

Orlando, Aldo Mario
Fitoplancton antártico y las varibales físico-químicas del medio [Antarctic phytoplankton and the physical–chemical variables in the area] (*with* **Mandelli, E. F.** and **Burkholder, P. R.**), 21.3–683

Orlanski, Isidoro
Influence of bottom topography on the stability of jets in a baroclinic fluid, 21.4–737

Orlenko, L. R.
Distribution of meteorological elements in the boundary layer of the atmosphere, 21.9–61R

Orlob, G. T.
Mathematical simulation of stratification in deep reservoirs (*with* **Selna, L. G.**), 21.4–598

Orlov, V. N.
Ob opredelenii temperaturnykh kontrastov rastitel'nogo pokrova radiometricheskim sposobom [Determining the temperature contrasts of the plant cover by radiometric means], 21.2–335

Orlova, E. M.
Rezul'taty opytnykh prognozov kolichestva osadkov i ikh rascheta i diagnoze [Results of experimental forecasts of the quantity of precipitation and their calculation in the diagnosis] (*with others*), 21.12–176

Orlova, V. V.
Study of the climate of the U.S.S.R. and other countries (*with* **Sorochan, O. G.**), 21.9–62R

Orozco, A., *see* **Gall, Ruth**, 21.7–410

Orr, David
Variation of Pi2 micropulsation waveform with time, 21.5–740

Orszag, A.
Évaluation de la densité atmosphérique par radar optique [Evaluation of atmospheric density by optical radar] (*with* **Pourny, J. C.**), 21.9–115

Ortiz Santos, Gabriel, *see* **Ramos Magaña, J.**, 21.4–530

Ortolani, A. A.
Nota prévia sōbre a viabilidade climática para o cultivo da juta no Estado de Goiás [Preliminary note on the climatic variability for the cultivation of jute in the State of Goias], 21.11–474

Orvig, Svenn, *see* **Vowinckel, E.**, 21.4–101; 21.5–367

Orville, H. D.
Effects of higher order advection techniques on a numerical cloud model (*with* **Sloan, L. J.**), 21.5–599
See also **Liu, J. Y.**, 21.1–587; 21.4–275; **Sloan, Lansing J.**, 21.9–83

Orville, Richard E.
Can we reduce lightning deaths?, 21.8–632
Time-resolved characteristics of the lightning return stroke, 21.8–633
Osadchaia, N. N.
Utochnenie metoda vychisleniia i prognoza dozhdevogo stoka bol'shikh i srednikh rek po stoku s malykh basseinov [Improving the method of calculation and prediction of rain runoff of large and medium size rivers from the runoff from small basins], 21.12–663
Osborn, H. B.
Analysis of two major runoff-producing southwest thunderstorms (*with* **Renard, K. G.**), 21.4–118
See also **Hicock, R. B.,** 21.9–602
Ose, M.
Records of radio aurora at Syowa Station, Antarctica from March 1966 to Jan. 1968 (*with others*), 21.2–371
O'Shea, J. A.
Water resources of the Burdekin Delta, 21.9–618
Osherovich, A. L.
Issledovanie atmosfernogo ozona vo vremia polnogo zatmeniia solntsa 22 septiabria 1968 g. [Investigation of atmospheric ozone during the total solar eclipse of Sept. 22, 1968] (*with* **Rosinskii, M. Ia.** and **Iurgonov, L. N.**), 21.9–150
O sravnenii setevogo ozonometra tipa M-83 s ozonometrom, osnashchennym interferntsionnymi uzkopolosnymi fil'trami [Comparison of the network ozonometer M-83 with the ozonometer having interference narrow-band filters] (*with* **Rozinskiĭ, M. Ia.** and **Furman, Sh. A.**) [and English transl.], 21.6–116
Selectivity of aerosol attenuation in ozonometric observations over Zailivskiy Ala Tau (*with* **Suslov, A. K.**), 21.10–35R
Osipov, Iu. S.
Ob uchete konechnosti vremeni deĭstviia istochnika pri izuchenii poperechnoĭ diffuzii primesi v atmosfere [The influence of the finite time of admixture injection on the studies of lateral diffusion in the atmosphere] [and English transl.], 21.2–87
Osipov, N. K.
Vzaimodeĭstvie elektronnogo potoka s atmosferoĭ [Interaction of an electron stream with the atmosphere] (*with others*) [and English transl.], 21.3–529
Osipov, V. M., *see* **Gal'tsev, A. P.,** 21.6–209
Osipova, T. I.
Primenenie fosforilirovannoĭ tselliulozy dlia otdeleniia zheleza pri analize prirodnykh vod [The use of phosphorylated cellulose for the determination of iron in analysis of natural waters] (*with* **Iakimets, E. M.** and **Kazantsev, E. I.**) [and English transl.], 21.5–748
Osman, Osman E.
On the synoptic climatology of summer rainfall over Central Sudan (*with* **Hastenrath, S.**), 21.7–589
Osmond, J. K., *see* **Kaufman, M. I.,** 21.10–728
Osmun, William G.
Airline warm fog dispersal program, 21.1–262
Osswald, Bernhard
Luftverunreinigung durch Autoabgase [Atmospheric pollution through automobile exhaust gases] (*with others*), 21.2–53
Ostapova, E. M.
Vnutrigodovoe rapsredelenie stoka vzveshennykh nanosov i mutnosti vody rek basseĭna oz Balkhash [Interyear distribution of the runoff of suspended deposits and turbidity in river waters of the Balkhash Lake basin] (*with* **Pavlenko, N. P.**), 21.4–590
Ostby, Frederick P.
Small-scale precipitation network over central Connecticut (*with* **Atwater, A.** and **Perry, F.**), 21.1–124
Ostlund, H. Gote, *see* **Ehhalt, Dieter H.,** 21.12–215, –381
Ostrekin, M. E.
Deiatel'nost' i osnovnye itogi raboty Desiatoĭ sovetskoi antarkticheskoi ekspeditsii [Activities and the mail results of the work of the 10th Soviet Antarctic Expedition] (*with* **Petrov, I. G.**), 21.8–39
Ostrovskiĭ, V. N.
O roli infil'tratsii poverkhnostnogo stoka v formirovanii podzemnykh vod Mynbulakskogo artezianskogo basseĭna [Role of the infiltration in the formation of underground waters of Mynbulak artesian basin] (*with* **Semenov, V. A.** and **Kalugin, S. K.**), 21.4–567
Ostrowski, Stansław, *see* **Bojanowski, Ryszard,** 21.8–839; **Pasłwsra, Stefania,** 21.7–133
Oswatitsch, Klaus
Uber Wirbelkennzahlen und Wirbelmasse

[Vorticity numbers and vorticity measures], 21.7–236
Othieno, C. O., *see* **Dagg, M.**, 21.9–354
Otnes, J., *see* **Hyelm Hansen, Age**, 21.11–95R
Otsuka, Kouji, *see* **Sakai, Akira**, 21.8–323
Ott, R. H.
  Terrain effects on antenna radiation patterns, Pt. 2 (*with* **Herman, J. E.**), 21.5–42
Ottawa, Canada. Plant Research Institute
  Research Report, 1968, 21.9–121R
Otterman, Joseph
  Problems in photometric analysis of imagery from satellites, 21.12–80
Ottersten, Hans
  Atmospheric structure and radar backscattering in clear air, 21.11–47
  Mean vertical gradient of potential refractive index in turbulent mixing and radar detection of CAT, 21.11–48
  Radar backscattering from the turbulent clear atmosphere, 21.10–31
  See also **Hardy, K. R.**, 21.1–542
Otto, Gerhard
  Zur kartographischen Darstellung der Niederschlagsverteilung im Masstab ≧ 1:200000: Klimageographische Arbeitskarten [Cartographic representation of precipitation distribution in scales of ≧ 1:200000: climatogeographical working maps], 21.7–603
Otto, L.
  Saliniteitsvariaties bij het lichtschip Texel [Salinity variations in the vicinity of the Texel Lightship], 21.2–767
Ouellet, C. E.
  Usefulness of climatic normals for plant zonation in Canada, 21.8–555
Ôura, Hirobumi
  Characters of the wind-speed profile during drifting snow, Pt. 2 (*with* **Kobayashi, S.** and **Kobayashi, D.**), 21.2–232
  See also **Kobayashi, Daiji**, 21.9–341
Oury, Bernard
  Weather and economic development, 21.9–10
Outcalt, Sam I.
  Weather and diurnal frozen soil structure at Charlottesville, Virginia, 21.7–458
Ovchinnikova, E. N., *see* **Volkova, S. S.**, 21.6–160
Ovchinskiĭ, B. V.
  Prilozhenie teorii fil'tratsii sluchaĭnykh protsessov k nekotorym zadacham ob"ektivnogo analiza [Application of th theory of filtration of random element to some problems of objective analysis] 21.1–224
Overby, Ronald C.
  Analysis of tactical weather reconnaissance, 21.3–137
Ovezgel'dyev, O.
  O zavisimosti chastotnykh kharakteristik sloia E$_s$ ot tekhnicheskikh parametrov apparatury [Dependence of frequenc characteristics of E$_s$ layer on the technical parameters of the apparatus] (*with* **Kelov, K.**), 21.12–308
  Ob odnom metode izucheniia zavisimost OE ot chastoty [A method of studyin the dependence of OE$_s$ upon frequency] (*with* **Kelov, K.**), 21.12–307
Ovsiankin, M. A., *see* **Kokurin, Iu. L.**, 21.11–196
Ovsiannikov, V .V.
  Ispol'zovenie EVM "Razdan-2" dlia polucheniia klimaticheskikh kharakteristik sloia tropopauzy [Use of the computer "Razdan-2" for obtaining climatic characteristics of the tropopause layer], 21.11–168
  O predvychislenii davleniia i vertikal'nykh dvizheniĭ v atmosfere s ispol'zovaniem EVM [Precalculation of pressure and vertical motions in the atmosphere by means of a computer], 21.11–352
  See also **Makhover, Z. M.**, 21.11–54
Owen, C. M., *see* **Portune, J. E.**, 21.10–37
Owen, Tobias
  Atmosphere of Jupiter, 21.10–627
  Mars: water vapor in its atmosphere, 21.10–621
  New studies of Jupiter's atmosphere (*with* **Mason, H. P.**), 21.7–762
  The spectra of Jupiter and Saturn in the photographic infrared, 21.11–591
Owen, Wadsworth
  Study of the physical hydrography of the Patuxent River and its estuary, 21.4–792
Owens, E. H.
  Role of ice in the Arctic beach environment with special reference to Cape Ricketts, southwest Devon Island, Northwest Territories, Canada (*with* **McCann, S. B.**), 21.10–773
Owens, John James, Jr.
  Distribution of air mass thunderstorms in New England, 21.1–412

- **Oya, Hiroshi**
  - Development of gyro-plasma probe, 21.6–122
  - Ionospheric electron temperature measured by a gyro-plasma probe (*with* **Aso, T.**), 21.10–177
  - Quadruple probe for D. C. electric field measurement in space, 21.12–117
- **Ozal, Korkut**
  - Development of the Euphrates Basin in Turkey: a case study (*with* **Kutan, R.** and **Adak, F.**), 21.7–791
- **Ozmidov, R. V.**
  - Mezhdunarodnaia ekspeditsiia po issledovaniiu turbulentnoĭ diffuzii primeseĭ v more [International expedition to study the turbulent diffusion of pollutants in the sea], 21.9–708
  - Novye dannye o diffuzii primeseĭ v more [New data on the admixture diffusion in the sea] (*with* **Gezentsveĭ, A. N.** and **Karabashev, G. S.**), 21.9–709
- **Ozorai, Zoltán**
  - Budapest–Ferihegyi repülőtér szélviszonyai [Wind conditions of the Budapest–Ferihegy Airport], 21.7–490

P

- **Pabst, Arthur F.**, *see* **Bowers, C. E.**, 21.1–601
- **Pachomov, S. V.**
  - Technique of obtaining data about winds in the mesosphere by small meteorological rockets, 21.3–628
- **Pack, A. Boyd**
  - Minimum temperature patterns over New York State on two winter nights, 21.7–438
  - Water content of snowstorms in New York State: variations among different physiographic regions, 21.10–415
- **Pack, D. H.**, *see* **Angell, J. K.**, 21.4–243
- **Pade, B. H. G.**, *see* **Csanady, G. T.**, 21.2–619
- **Padmanabhamurthy, B.**
  - Physiologic climates of some cities in India, a bioclimatic classification based on man, 21.7–692
- **Padmanabhan, G. R.**, *see* **Bhaskara Rao, A.**, 21.3–198
- **Paegle, Jan**
  - Studies of diurnally periodic boundary layer winds, 21.10–333
- **Paes de Barros, M. H.**, *see* **Kaufmann, P.**, 21.6–406
- **Paetzold, Hans Karl**
  - Langzeitliche Schwankungen der vertikalen Ozonverteilung über Mitteleuropa [Prolonged fluctuations in the vertical ozone distribution profile over Central Europe] (*with* **Piscalar, F.** and **Zschörner, H.**), 21.5–331
  - Variation of the vertical ozone profile over middle Europe from 1951 to 1968, 21.6–215
- **Pagava, S. T.**
  - Osobennosto polia temperatury na poverkhnosti 100 mb letom i osen'iu [Temperature field characteristics of a 100-millibar surface in summer and fall], 21.9–249
- **Page, J. K.**
  - Heavy glaze in Yorkshire, March 1969, 21.8–360
- **Page, Leo M.**
  - Use of the geoelectric method for investigating geologic and hydrologic conditions in Santa Clara County, California, 21.2–273
- **Page, Thornton**
  - View from the outside, 21.4–38
- **Pagliari, Marcello**
  - Studio sulle inversioni da raffreddamento al suolo a Trino Vercellese nella estate 1966 [Study of the inversions of surface cooling at Trino Vercellese in the summer of 1966], 21.7–448
  - *See also* **Longhetto, Arnaldo**, 21.11–127
- **Painter, H. E.**
  - Recording resistance psychrometer, 21.11–97
  - Tethered radiosonde, 21.10–52
- **Pak, Hasong**
  - Optical and hydrographic study of a temperature inversion off Oregon during upwelling (*with* **Beardsley, G. F., Jr.** and **Smith, R. L.**), 21.5–797
- **Paka, V. T.**, *see* **Ivanov, V. N.**, 21.2–765; 21.4–659
- **Pakhomov, S. V.**
  - Nekotorye voprosy radiolokatsii oblakov dipol'nykh otrazhateleĭ [Some questions concerning the radar detection of dipole reflector clouds (chaff clouds)], 21.11–93
  - Radiolokatsionnye izmereniia vetra v mezosfere [Radar wind measurements in the mesosphere], 21.3–72
- **Pakhomova, L. A.**, *see* **Korobov, M. G.**, 21.1–444

Pakter, M. K.
  Novyĭ metod kolichestvennogo opredeleniia rtuti v vozdukhe [A new method of quantitative analysis of mercury in the air] [and English transl.], 21.3–325
Palagniuk, E. G.
  Nekrotorye radiolokatsionnye kharakteristiki livnevykh ochagov nad gornymi raionami Zailiiskogo Alatau [Some radar characteristics of rainstorm centers over the mountain regions of the Trans-Ili Ala-Tau] (*with* **Barkin, A. M.**), 21.12–47
Palasios, O., *see* **Golovanov, A. I.**, 21.10–428
Pallmann, Albert J.
  Nimbus-II satellite radiation and conventional wind data reduction by Fourier techniques for the study of the "temporal"—occurrence west of Central America in June 1966, 21.4–230
Palm, Ann
  Evolution of Venus' atmosphere, 21.9–506
Palmeira, R. A. R.
  Determination of the solar–flare cosmic ray rigidity spectrum using the worldwide neutron monitor network (*with* **Bukata, R. P.** and **Gronstal, P. T.**), 21.7–417
Palmén, E.
  Atmospheric circulation systems (*with* **Newton, C. W.**), 21.6–313
Palmer, B. D.
  Interhemispheric transport of atmospheric fission debris from French nuclear tests, 21.5–363
Palmer, H. V. R., Jr.
  Accurate weather forecasting, 21.9–80
Palmieri, Guido
  Applicazioni meteorologiche di una macchina classificatrice probabilistica [Meteorological application of a classifying machine by probabilistic method], 21.7–90
Palmieri, Sabino
  Fattori atmosferici e fusione della neve [Atmospheric factors and snow melt], 21.1–632
  Metodo obiettivo di preallarme per precipitazioni intense ed estese su regioni del territorio nazionale [Objective method for early warning of intense and extended precipitation in Italy] (*with* **Finizio, C.**), 21.7–98
  Previsione dell'acqua alta a Venezia sulla base degli elementi meteorologici raccolti dalla rete sinottica dell'A.M. [Forecasting "high weather" at Venice on the basis of meteorological elements collected by the network of the Italian Meteorological Service] (*with* **Finizio, C.**), 21.7–102
  See also **Palmieri, Guido**, 21.7–90
Paltridge, G. K.
  Application of the technique of ionospheric drift analysis to the study of atmospheric turbulence, 21.1–485
Pan, P., *see* **Tolstoy, I.**, 21.6–271
Panaĭotov, T.
  Tsentŭr na vŭtreshnogodishnoto razpredelenie na ottoka [A center of the annual distribution of the runoff], 21.9–348
Panait, Ioan
  Precizări privind formarea şi evoluţia fenomenului helioterm in lacul Ursu–Sovata [Certain clarifications regarding the formations and evolution of the heliothermic phenomenon in the Ursa–Sovata Lake] (*with* **Bobeica, A.**), 21.7–816
Panchev, St.
  Teoriia na podobieto za meteorologichnite spektri pri dvizheniiata ot sinoptichen mashtab [Similarity theory of synoptic scale meteorological spectra], 21.8–219
  Vertikalna korelatsiia na geostronfniia viatŭr v svobodnata atmosfera [Vertical correlation of the geostrophic wind in the free atmosphere], 21.1–529
  Vŭrkhu analitichnata aproksmiatsiia na znakopromenlivite korelatsionni funktsii na meteorologichnite elementi [Analytic approximation of the sign changing correlation functions of the meteorological elements], 21.7–19
  See also **Andreev, V.**, 21.5–527; **Lin, J. T.**, 21.10–230
Pande, M. C.
  The dependence of facula–photosphere contrast in molecular lines on dissociation energy (*with* **Gaur, V. P.** and **Tripathi, B. M.**), 21.9–525
  Molecules in the solar photosphere (*with* **Gaur, V. P.** and **Tripathi, B. M.**), 21.2–467
Pandolfo, Joseph P.
  Motions with inertial and diurnal period in a numerical model of the navifacial boundary layer, 21.4–702
  Numerical model of the atmosphere–ocean planetary boundary layer, 21.3–340

  - *See also* **Brown, P. S., Jr.,** 21.6–379; **Jacobs, Clifford A.,** 21.8–822
- **Panin, B. D.**
  - On the determination of the temperature of the radiating surface and the total moisture content according to radiation measurement on a satellite, 21.11–17R
  - *See also* **Goverdovskii, V. F.,** 21.11–8R
- **Pankow, J.,** *see* **Ryhiner, A. H.,** 21.6–94
- **Pankratov, A. K.**
  - Skachkoobraznye izmeneniia fazy sutochnoĭ variatsii intensivnosti kosmicheskikh lucheĭ [Phase jumps of diurnal variations in cosmic-ray intensity] (*with* **Vladimirskiĭ, B. M.** and **Stepanian, A. A.**), 21.10–301
  - *See also* **Vladimirskiĭ, B. M.,** 21.9–235
- **Panofsky, Hans A.**
  - Air pollution meteorology, 21.1–304
  - Budgets of turbulent fluctuations (*with others*), 21.10–232
  - Internal atmospheric turbulence, 21.2–223
  - Recent measurements of cospectra for heat-flux and stress (*with* **Mares, E.**), 21.1–352
  - Satellite radiation measurements and synoptic data (*with others*), 21.2–23
  - Spectra of atmospheric variables in the boundary layer, 21.10–23
  - The spectrum of temperature, 21.12–445
  - Survey of current thought on wind properties relevant for diffusion in the lowest 100 M, 21.1–495
  - *See also* **Blackadar, A. K.,** 21.1–357; 21.7–499; **Busch, N. E.,** 21.1–366; **Dutton, John A.,** 21.9–257; **Lethbridge, Mae,** 21.12–77; **Trout, D.,** 21.4–201
- **Panov, V. V.**
  - Nekotorye kharakteristiki krupnomasshtabnoĭ turbulentnosti techeniĭ Arkticheskogo basseĭna i Artkicheskikh moreĭ [Some characteristics of large-scale turbulence of the currents in the Arctic Basin and in the Arctic seas], 21.2–741
- **Panova, G. D.,** *see* **Ponomarenko, S. I.,** 21.1–615
- **Panova, M. E.**
  - Raspredelenie fosfatov v vodakh severa Atlantiki [Phosphate distribution in the waters of the North Atlantic], 21.9–703
- **Pant, M. B.,** *see* **Kulkarni, N. S.,** 21.8–397
- **Pantzke, Eugen**
  - Ergebnisse der Aufstiege der Radiosondenstation Berlin–Tempelhof des Instituts . . . im Jahre 1969: tägliche Messresultate, monatliche Bearbeitung und klimatologische Werte, sowie Messergebnisse von Spezialaufstiegen, März [Results of radiosonde ascents of the Berlin–Tempelhof Station of the Institute, in 1969: Daily measurements, monthly and climatological values as well as results of special ascents, March] (*with others*), 21.10–53
- **Panzram, Heinz**
  - Klimaänderungen und Entwicklung der Völker [Climatic change and the development of nations], 21.11–460
- **Pao, Tih Ho,** *see* **Symposium on Turbulence, Seattle, Wash., June 23–27, 1969,** 21.5–389
- **Pao, Y. H.**
  - Inviscid flows of stably stratified fluids over barriers, 21.1–361
  - On-line computer analysis of turbulence data with fast Fourier transform method (*with* **Hansen, S. D.** and **MacGregor, G. R.**), 21.4–195
  - Spectra of internal waves and turbulence in stratified fluids, Pt. 1, General discussion and indications from measurements in stably stratified atmosphere and ocean, 21.11–229
  - *See also* **Hall, J. Michael,** 21.12–807
- **Paolini, F. R.,** *see* **Theodoridis, G. C.,** 21.8–299, –301
- **Papadakis, J.**
  - Growth retardants and fertilizers with a brief discussion of light and temperature relations of plants and plant population stress, 21.3–506
- **Papagiannis, Michael D.,** *see* **Elkins, Terence J.,** 21.11–184; **Mendillo, M.,** 21.8–191; **Strauss, F. M.,** 21.4–454
- **Papee, Henry M.,** *see* **Petriconi, G. L.,** 21.6–164
- **Papet-Lepine, Jacques**
  - Production d'ozone atmosphérique par les décharges silencieuses [Production of atmospheric ozone by silent discharges], (*with* **Vassy, A.**), 21.5–228
- **Papp, Béla**
  - A szemescirok kelésének kapcsolata a talaj hőmérsékletével [Relation between the sprouting of grain sorghum and soil temperature], 21.11–325
- **Paramonov, N. A.**
  - Issledovanie sviazi mezhdu aktivnost'iu solntsa i gradientom potentsiala elektricheskogo polia v atmosfere po materialem stantsiĭ Sovetskogo Soiuza za 1957–1967 gg. [Research into the rela-

tionship between solar activity and the atmospheric electric field potential gradient according to Soviet Union Station data from 1957–1967], 21.8–606

Pararas-Carayannis, George
  Catalog of tsunamis in the Hawaiian Islands, 21.9–192R

Parczewski, Władysław
  Einfluss der Stabilität der Atmosphäre auf die Konzentration der Luftverunreinigungen [Influence of atmospheric stability on air pollution concentration], 21.6–180
  Polska Służba Hydrologiczno-Meteorologiczna u progu nowego 50-lecia [Polish Hydrological and Meteorological Service at the beginning of the new 50-year period], 21.9–11

Pardé, M.
  Détermination des débits maximaux d'après les traces des anciennes [Determination of maximum runoff based on historical traces], 21.7–783
  Évaluation des débits maximaux des crues d'apres la seule connaissance des apports atmosphériques responsables [Evaluaation of maximum flood discharge based on insufficient knowledge of the atmospheric data responsible], 21.10–419

Pardo, J., *see* **Pliego, J. M.**, 21.11–95R

Pardoe, G. K. C.
  Earth resource satellites, 21.3–157
  See also **Laing, R. W.**, 21.12–76

Pardue, Leonard G., *see* **Sugg, Arnold L.**, 21.9–245R

Pardy, D.
  Continuously recording radiometer for emissions from the night sky between 1 and 2 μm, 21.2–29

Parfitt, G. G.
  Transient response of field mills, 21.6–113

Paris, Jack Frederick
  Microwave radiometry and its applications to marine meteorology and oceanography, 21.7–25

Park, Chung Kil, *see* **Gong, Yeong**, 21.9–716

Park, P. Kilho
  Alkalinity budget of the Columbia River (*with* **Webster, G. R.** and **Yamamoto, R.**), 21.4–577
  Carbon dioxide partial pressure in the Columbia River (*with others*), 21.7–804

Parker, A. E.
  Dry and wet weeks and their relationship with the 500-millibar flow, 21.11–385
  See also **Murray, R.**, 21.1–393

Parker, E. N.
  Energetic solar particles, 21.9–227
  Theoretical studies of the solar wind ph
  nomenon, 21.3–530

Parker, Johnson
  Drought-resistance mechanisms, 21.8–418

Parker, Lee W.
  Theory of the circular planar (guarding
  Langmuir probe, 21.7–71
  See also **Whipple, E. C., Jr.**, 21.2–15
  21.4–154

Parker, Michael
  Studies on the distribution of cobalt
  lakes (*with* **Hasler, A. D.**), 21.4–599

Parker, W. J.
  Polarographic analogues for dispers
  fogs, 21.2–48

Parkin, D. W.
  Airborne dust collections over the Nort
  Atlantic, 21.12–252

Parkinson, W. H.
  Measurements in the solar spectrum b
  tween 1400 and 1875 Å with a rocke
  borne spectrometer (*with* **Reeves, H
  M.**), 21.10–668

Parks, G. K.
  Simultaneous observations of 5- to 15-se
  ond period modulated energetic electro
  fluxes at the synchronous altitude and th
  auroral zone (*with* **Winckler, J. R.**
  21.7–380

Parmuzina, T. A.
  Atmosfernye ritmy i ikh issledovanie
  morskoĭ klimatologii [Atmospheri
  rhythms and their study in marine cl
  matology], 21.2–300

Parnell, R. L.
  The interpretation of velocity filter
  grams, Pt. 1, The effective depth of lin
  formation (*with* **Beckers, J. M.**), 21.12
  626
  See also **Beckers, J. M.**, 21.9–530

Parrey, G. E.
  Minimum road temperatures, 21.11–327

Parry, H. Dean
  Semiautomatic computation of rawinsonde
  21.6–23

Parshin, V. N.
  O pole sloia stoka za polovod'e [The run
  off layer field during flood], 21.4–527
  Prognozy vodnosti krupnykh rek i reguli
  rovanie stoka [Forecasts of water dis
  charges and runoff control in larg
  rivers], 21.10–710

Parshina, N. K.
  Ob izmenenii rezhima vetra na Severno
  Kavkaze [The change of wind regime i

the North Caucasus], 21.3–613

Parsons, A. T.
  Two-layer model of Gulf Stream separation, 21.8–849

Parsons, N. R., *see* **Scourfield, M. W. J.**, 21.10–522

Parsons, T. R., *see* **Anderson, G. C.**, 21.3–784

Parungo, Farn P.
  Field use of a simple technique for identifying silver iodide particles as snow crystal nuclei (*with* **Rhea, J. O.**), 21.11–147
  Lead measurement in urban air as it relates to weather modification (*with* **Rhea, J. O.**), 21.11–372

Pascovici, T., *see* **Patrichi, F.**, 21.5–140

Pase, Charles Pierce
  Increasing water yield from forest, chaparral, and desert shrub in Arizona (*with* **Fogel, M. M.**), 21.6–765

Pashkevich, B. V., *see* **Pushkarev, V. F.**, 21.6–545

Pashova, L. T.
  Dolgosrochnyĭ prognoz pritoka vody za period vesennego polovod'ia k kievskomu vodokhranilishchu [Long-range forecast of water inflow into the Kiev Reservoir during the spring high water], 21.12–665

Pasinetti, Laura E., *see* **Fracassini, M.**, 21.2–452

Pasławska, Stefania
  On the influence of the Baltic Sea on the iodine content of air in the inshore zone (*with* **Ostrowski, S.**), 21.7–133

Pasławski, Z.
  The influence of the primordial valleys upon the transformation of flood-waves of the Warta River (*with* **Olejnik, K.**), 21.10–701

Pasov, V. M.
  Otsenka vidov na urozhai iarovogo iachmenia sorta Viner v nechernozemnoi zone Evropeiskoi territorii SSR [Evaluation of the types of harvests of spring barley of the Wiener types on the non-chernozem zone of the European U.S.S.R.], 21.12–168

Pasquill, F.
  Some outstanding issues in the theory and practice of estimating diffusion from sources, 21.1–496

Passino, Roberto
  Activities of study and research of the National Research Council in the field of water problems, 21.6–741

Pastukhov, A. F., *see* **Sarkisian, A. S.**, 21.10–823

Pastushkov, R. S.
  O razvitii kuchevykh oblakov v atmosfere s vertikal'nym sdvigom vetra [The evolution of cumulus clouds in the atmosphere with a vertical wind shear], 21.6–586

Pătăchie, Iulia
  Contributii la aplicarea unor elemente din teoria corelatiilor în agrometeorologie [Contributions to the application of some elements of the correlation theory in agrometeorology] (*with* **Ciovica, N.**), 21.7–693
  Stabilirea unor indici agroclimatici la hibrizii dubli de porumb în perioada de la semănat la apariția paniculului [The establishment of some agrometeorological clues for the double maize hybrids during the time after sowing to the time the panicle springs], 21.6–657

Pate, John B., *see* **Wartburg, Arthur F.**, 21.7–64

Patel, B. M., *see* **Kotadia, K. M.**, 21.1–671

Patel, H. I.
  Application of the multivariate extended Poisson distribution in 2×2 contingency tables (*with* **Trivedi, S. J.**), 21.5–33

Paterson, D. C.
  Journal of Adam Bald, 21.3–118

Paterson, W. S. B.
  Meighen Ice Cap, Arctic Canada, 21.5–777

Pathak, R. B., *see* **Srivastava, H. N.**, 21.7–216

Patočka, S., *see* **Matoušek, J.**, 21.1–341

Paton, J.
  Noctilucent clouds over western Europe during 1968, 21.9–420

Patric, James H.
  Device for measuring soil frost (*with* **Fridley, B. D.**), 21.6–76

Patrichi, F.
  Model de pluviograf care permite înregistrarea precipitațiilor de mare intensitate [A rain-gage model allowing heavy precipitation to be recorded] (*with* **Pascovici, T.**), 21.5–140
  Noi îmbunătățiri în funcționarea stațiilor meteorologice automate [New improvements in running automated weather stations], 21.6–99
  O nouă metodă de măsurare a parmetrilor necesari determinării coefficientului de turbulență în scopul stabilirii regimului de difuzie a impurităților în aerul atmo-

sferic [A new method to get the necessary parameters to establish the eddy coefficient in order to fix the spread pattern of air pollution] (*with* **Cristea, N.**), 21.4–205

Patsaeva, V. A., *see* **Gorelik, A. G.**, 21.1–113

Patterson, G., *see* **Collins, B. G.**, 21.3–177; **Sumner, C. J.**, 21.9–53

Patterson, Ronald K., *see* **Lee, R. E., Jr.**, 21.5–264

Patterson, T. N. L.
  Deduction of ionospheric parameters from retarding potential analyzers, 21.8–195

Pattullo, June G.
  Oceanic heat content off Oregon (*with* **Burt, W. V.** and **Kulm, S. A.**), 21.2–701
  See also **Collins, Curtis A.**, 21.10–818

Patzert, William, *see* **Wyrtki, K.**, 21.4–725

Paugam, J. Y., *see* **Maze, R.**, 21.12–98

Paul, P.
  Contribution à l'étude du climat du Velay et du Haut–Vivarais [Contribution to the study of the climate of Velay and of Haut–Vivarais], 21.8–509

Paulhus, J. L. H.
  Annotated bibliography of ESSA publications of hydrometeorological interest, 21.9–137R

Paulikas, G. A.
  Effects of sudden commencements on solar protons at the synchronous orbit (*with* **Blake, J. B.**), 21.7–381

Paulin, Gaston
  Simplified method of computing stratospheric heating rates and associated generation of available potential energy, 21.1–317

Paulson, Clayton A.
  [Comments on] **J. W. Deardorff:** Dependence of air–sea transfer coefficients on bulk stability, 21.1–353

Paulus, Harold J., *see* **Baker, D. G.**, 21.4–169; **Peterson, C. M.**, 21.5–279

Paulus, Joseph L. H.
  Hydrometeorological data for hydrologic planning and design, 21.6–623

Pavanello, R.
  Water pollution control, 21.6–775

Pavelko, I. M.
  Hydrochemical maps of the rivers of Kazakhstan and their use for the rapid forecasting of the mineralization and ion composition of waters of prospective reservoirs (*with* **Tarasov, M. N.**) [Transl. from Russian], 21.2–572

Pavlenko, G. V.
  Formirovanie dozhdevykh pavodkov na Latoritse i prognoz ikh maksimal'nyk raskhodov [Formation of rain flood on the Latoritsa River and forecastin of their peak discharges], 21.12–155

Pavlenko, N. P., *see* **Ostapova, E. M** 21.4–590

Pavlov, N. F.
  Metodika i rezul'taty eksperimental'nog izucheniia poliarizatsionnykh svoĭstv meteorologicheskikh tseleĭ [Methods an results of experimental studies on th polarization properties of meteorologi cal targets] (*with* **Stepanenko, V. D.** 21.1–118
  Oslablenie otrazheniĭ ot osadkov v radio lokatsionnykh stantsiiakhs s lineĭnoĭ po liarizatsieĭ [Attenuation of reflection from precipitations in radar station with linear polarization], 21.1–199

Pavlova, E. N., *see* **Movchan, B. N.**, 21.11 53R

Pavlova, G. P.
  Izmenenie grozovoĭ deiatel'nosti ot period MGG k periodu MGSS po nabliudeniiar meteorologicheskikh stantsiĭ SSS [Changes in thunderstorm activity fro the IGY period to the IQSY period ac cording to U.S.S.R. meteorological sta tions], 21.7–304

Pavlovskaia, A. A., *see* **Pogosian, Kh. P** 21.3–256

Pavlowitz, Abraham M., *see* **Cooley, D. S** 21.6–130

Pawlik, Chester L.
  Comprehensive approach to hurricane floo protection, 21.6–334

Payne, Bryan R.
  Occurrence of tritium in precipitation an its significance in hydrological investi gations (*with* **Thatcher, L. L.**), 21.8 428

Payne, Faith N., *see* **Chase, Edith Becke** 21.11–682, –669

Payne, G. S., *see* **Macklin, W. C.**, 21.1–57

Pazos, J. M., *see* **Pliego, J. M.**, 21.11–95R

Peace, R. L., Jr.
  Horizontal motion field observations wit a single pulse Doppler radar (*wit* **Brown, R. A.** and **Camnitz, H. G.** 21.3–629

Pearce, George W., *see* **Miles, James W** 21.11–102

Pearce, R. P.
  Parametrization of convective heat an

momentum transfer suggested by analysis of Caribbean data (*with* **Riehl, H.**), 21.3–468

Pearson, Allen D.
The tornado season of 1969 (*with* **Krebs, R. P.**), 21.9–243R

Pearson, B. Douglas, Jr., *see* **Arvesen, J. C.,** 21.5–437

Pearson, J. E.
Water vapor absorption near a wavelength of 0.79 mm (*with* **Llewellyn-Jones, D. T.** and **Knight, R. J.**), 21.3–641

Pearson, P. H. O.
Basic atmospheric parameters as measured by four falling sphere experiments at Woomera, October 1965 to January 1966, 21.3–126
Basic atmospheric parameters as measured by four falling sphere experiments at Woomera, February to June 1966, 21.3–127
Basic atmospheric parameters as measured by four falling sphere experiments at Woomera, July to November 1966, 21.11–61

Pease, Thomas E.
Study of temperature and salinity changes along the northern New Jersey coast, 21.4–708

Pebbles, P. J. E.
Infrared astronomy and cosmology, 21.7–740

Pechala, František
Porovnání horizontální divergence vektoru větru vypočtené nepřimou a přimou metodou [A comparison of the horizontal divergence of the wind vector calculated by a direct and indirect method], 21.7–228

Peck, A. J.
Design and performance of an osmotic tensiometer for measuring capillary potential (*with* **Rabbidge, R. M.**), 21.5–142
Entrapment, stability, and persistence of air bubbles in soil water, 21.7–776; 21.11–440

Peck, N. H.
Growing season weather at Geneva, New York, 1953–1967 (*with* **Vittum, M. T.** and **Gibbs, G. H.**), 21.1–139

Peck, Richard C., *see* **George, D. H.,** 21.4–348

Peck, Ronald L.
Radiosonde multiplexer for active sensors, 21.5–146

Pecker, J. C.
On the abundance determination in the solar chromosphere (*with* **Pottasch, S. R.**), 21.9–547

Péczely György
A hófelhalmozódás és hóolvadás figyelembevétele vízgyűjtők csapadékrenszerének elemzésénél [Inclusion of snow accumulation and snow melt in the analysis of the precipitation pattern of catchment areas], 21.4–282
Beitrag der Schneeschmelze zur Wassereinnahme an der Erdoberfläche im Einzugsgebiet der Donau [Contribution of snowmelt to the water intake at the Earth's surface in the Danube catchment area], 21.5–646
Klimatische Charakteristika der maximalen Schneehöhe im oberen und mittleren Einzugsgebiete der Donau [Climatic characteristics of maximum snowcover in upper and middle catchment area of the Danube], 21.9–329

Ped', D. A.
O nekotorykh stratisticheskikh sviaziakh tsirkuliatsii v srednei troposfere [Some statistical correlations of the circulation in the middle troposphere], 21.12–368
See also **Blinnikova, Z. G.,** 21.3–268; **Kryndin, A. N.,** 21.2–210; 21.3–273; **Mertsalova, N. I.,** 21.9–95

Pedersen, Børge
Letter from the kingdom of Boreas Rex, 21.3–98

Pedgley, D. E.
Cyclones along the Arabian coast, 21.8–229
Diurnal variation of the incidence of monsoon rainfall over the Sudan, Pt. 2, 21.7–610
Snow and glaze on Christmas Eve 1968, 21.8–380
See also **Powell, J.,** 21.5–659

Pedlosky, Joseph
Finite–amplitude baroclinic waves, 21.6–314

Pedrazzini, A.
Il Ticino dei laghi: Clima e vantaggi [Ticino of the lakes: climate and advantages], 21.7–662

Peep, Mart
Chesapeake Bay Institute wave follower (*with* **Flower, R. J.**), 21.6–82

Peev, B.
Toplinen balans na lozia na terasiran sklon [The heat balance of vines of a terraced slope] (*with* **Lingova, St.**), 21.2–308
See also **Kukularov, P.,** 21.3–624

Péguy, Ch. P.
Représentation cartographique simple des pointes pluviométriques (*with* **Vivian, H.**), 21.6–603

Peixoto, José P., *see* **Starr, V. P.**, 21.6–535

Peligrad, Dumitru
Bruma şi îngheţul la Cluj [Hoarfrost and freezing at Cluj] (*with* **Hedeşiu, N.**), 21.2–194

Pell, Jerry
Quantitative hailstorm studies using broad vertical-beam radar, 21.4–301

Pelluard, Bernard, *see* **Expéditions Polaires Françaises, 1948**, 21.10–109R

Pelz, David T., *see* **Newton, G. P.**, 21.3–314

Pena, Jorge A.
Freezing temperatures of water droplets in equilibrium with different gases (*with* **Pena, R. G. de**), 21.12–506

Pena, Rosa G. de, *see* **Pena, Jorge A.**, 21.12–506

Pendergast, M. M., *see* **Scoggins, James R.**, 21.11–230

Pen'kov, A. P.
Nepreryvnaia prodolzhitel'nost' periodov so slozhnymi meteorologicheskimi usloviiami na Aziatskoi territorii SSSR [Uninterrupted duration of complex meteorological conditions over the Asiatic territory of the U.S.S.R.], 21.12–574

Penn, J. B.
Precipitation probabilities for selected locations in Louisiana (*with* **Heagler, A. M.** and **Bolton, B.**), 21.8–381

Pennak, Robert W.
Colorado semidrainage of mountain lakes, 21.6–786

Pennsylvania. State Univ., Dept. of Met., *see* **Davis, L. G.**, 21.1–584; **Panofsky, H. A.**, 21.2–23; **Weinstein, A. I.**, 21.1–595

Pennsylvania. State Univ., University Park. Center for Air Environment Studies
Air Pollution Titles, Vol. 5, No. 4, July/Aug. 1969, 21.9–138R

Penny, J. P.
Transfer of hydrologic data on computer media between independent authorities (*with* **Chapman, T. G.**), 21.9–575

Penzias, A. A.
Observational constraints on a discrete-source model to explain the microwave background (*with* **Schraml, J.** and **Wilson, R. W.**), 21.4–469

Perel'man, A. Ia., *see* **Shifrin, K. S.**, 21.9–76, –415

Perkonigg, Josef, *see* **Beran, F.**, 21.6–105

Perla, R.
Strength tests on newly fallen snow, 21.5–632

Perlis, Harlan J., *see* **Tarassov, Victor J.**, 21.10–759

Perlmutter, Morris
Rarefied diffusion by model sampling, 21.11–237

Perlroth, Irving
Effects of oceanographic media on equatorial Atlantic hurricanes, 21.3–469

Pernas, Ricardo E.
Underground waters of the Argentine Republic, 21.9–629

Perona, Giovanni
On the theory of ionospheric scintillations of lunar radar echoes, 21.10–587

Perov, S. P.
Nekotorye voprosy metodiki izmereniia atomarnogo kisloroda v verkhnikh sloiakh atmosfery [Some questions concerning the methods of determining atomic oxygen in the upper layers of the atmosphere] (*with* **Fedynskii, A. V.**), 21.11–31
Technique for measuring the water vapor and atomic oxygen content in the upper atmosphere (*with* **Fedynskiĭ, A. V.**), 21.3–59
See also **Kokin, G. A.**, 21.3–49

Perreault, P. D., *see* **Akasofu, S. I.**, 21.12–433

Perrier, A.
Approche théorique de la microturbulence et des transferts dans les couverts végétaux en vue de l'analyse de la production végétale [Theoretical approach to microturbulence and to transfer within the vegetable community in view of the analysis of the vegetable production], 21.3–592

Perrier, Raymond
Probabilites de gel au Québec [Probabilities of freezing in Quebec (Province)], 21.8–322

Perrin, Pierre
Caractéristiques générales des rivières vénézuéliennes [General characteristics of Venezuelan rivers], 21.1–645

Perrin de Brichambaut, Ch.
Modification artificielles du temps et du climat: possibilités d'interventions humaines [Artificial modification of weather and of climate: possibilities of human intervention], 21.11–134

Perry, A.
P.S.C.M. index and regional anomalies of temperature, rainfall and sunshine, 21.4–358

Perry, A. H.
Changes in duration and frequency of synoptic types over the British Isle, 21.10–244
Sensible and latent heat transfer over the North Atlantic during some recent winter months, 21.7–486
See also **Barry, R. G.**, 21.3–558

Perry, Frank, *see* **Ostby, F. P.**, 21.1–124

Perry, J. D., *see* **Gordon, J.**, 21.9–87

Perry, John S.
Fourth generation computers and the Air Weather Service, 21.1–72

Pershina, R. A.
Kharakteristika izmenchivosti temperatury vozdukha v pogranichnom sloe atmosfery [The characteristics of the air temperature variation in the boundary layer of the atmosphere], 21.11–310
O nekotorykh osobennostiakh vertikal'noĭ izmenchivosti skorosteĭ vetra v pogranichnom sloe atmosfery [Some characteristics of vertical wind speed variability in the boundary layer of the atmosphere], 21.1–520
O vzaimosviazi statisticheskikh parametrov skorosteĭ vetra i ikh vertikal'nykh sdvigov v pogranichnom sloe atmosfery [Relationship between statistical wind velocity parameters and vertical displacements in the boundary layers of the atmosphere], 21.11–349

Persin, S. M.
Ob odnom sposobe postroeniia elektroakusticheskoĭ sistemy izmereniia parametrov vetra i temperatury [A method for building electro–acoustic measurement systems of wind and temperature parameters] (*with* **Persina, E. L.** and **Popov, M. V.**), 21.8–58

Persina, E. L., *see* **Persin, S. M.**, 21.8–58

Peru. National Committee for Water for Peace Conference
General water conditions of Peru, 21.11–95R

Pesant, C., *see* **Mathieu, B.**, 21.8–467

Peskoff, Arthur
Feasibility study for remote sensing of atmospheric turbulence profiles (*with* **Margulies, R. S.** and **Wanlass, L. K.**), 21.10–327

Peskov, B. E.
Analiz usloviĭ vozniknoveniia intensivnoĭ grozovoĭ deiatel'nosti i shkvalov nad vostochnoĭ polovinoĭ Evropeĭskoĭ territorii SSSR 1 iiulia 1967 g. [Analysis of the conditions for the origin of intense storm activity and squalls over the eastern half of the European territory of the U.S.S.R. on July 1, 1967], 21.9–207
Analiz uslovii vozniknoveniia sil'nykh shkvalov s ispol'zovaniem sputnikovykh i radiolokatsionnykh dannykh [Use of satellite and radar data in analyzing heavy squall conditions] (*with* **Snitkovskii, A. I.**), 21.12–400
Sviaz' prostranstvennoĭ struktury radiolokatsionnogo ekha s ob"ektivnymi kharakteristikami frontov [The relationship between the structure of the radar echo from objective front characteristics], 21.7–28
Termodinamicheskie usloviia obrazovaniia shkvalov razlichnoĭ sily v tsentral'noĭ chasti Evropeĭskoĭ territorii SSSR [Thermodynamic conditions for the formation of squalls of varying strength in the central part of the European U.S.S.R.] (*with* **Snitkovskii, A. I.**), 21.7–308

Peskova, G. V., *see* **Petrova, M. S.**, 21.4–7

Petelina, N. A., *see* **Grinevich, G. A.**, 21.2–581

Peter, G. M., *see* **Kleinschmidt, E.**, 21.3–463

Peterle, Tony J.
DDT in Antarctic snow, 21.8–384

Peters, D. B., *see* **Aston, A. R.**, 21.5–428

Petersen, Daniel P.
On the concept and implementation of sequential analysis for linear random fields, 21.5–171
Study of objective analysis techniques for meteorological fields (*with* **Truske, T. N.**), 21.12–133

Petersen, E. W., *see* **Kuhn, P. M.**, 21.5–549

Petersen, Z. I.
Sviaz' minimal'nogo stoka rek Zabaĭkal'ia so sredneĭ vysotoĭ vodosbornoĭ ploshchadi [The relationship between minimum runoff of Transbaikal rivers and mean elevation of catchment area], 21.8–798

Peterson, C. F., *see* **Skerjanec, R. E.**, 21.3–27

Peterson, C. M.
Number–size distribution of atmospheric

particles during temperature inversions (*with* **Paulus, H. J.** and **Foley, G. H.**), 21.5–279

Peterson, Ernest W.
On the relation between the shear stress and the velocity profile after a change in surface roughness, 21.1–521

Peterson, Eugene K.
Carbon dioxide affects global ecology, 21.5–16

Peterson, Everett B.
Radiosonde data for characterization of a mountain environment in British Colombia, 21.4–174

Peterson, Floyd W., *see* **Irvine, W. M.**, 21.6–672

Peterson, James T.
Climate of cities: a survey of recent literature, 21.7–697
Optical properties of quartz dust particles at infrared wavelengths (*with* **Weinman, J. A.**), 21.8–144

Peterson, Kendall R.
Empirical model for estimating world-wide deposition from atmospheric nuclear detonations, 21.12–347

Peterson, L. R., *see* **Green, A. E. S.**, 21.7–330

Peterson, R. W., *see* **Carmichael, H.**, 21.5–467

Peterson, V. L.
O(^{1}D) quenching in the ionospheric F-region (*with* **Vanzandt, T. E.**), 21.6–237

Pethe, Hermann, *see* **Lucke, O.**, 21.1–370

Petit, L.
Résultats des mesures de la pollution atmosphérique à Nantes [Results of atmospheric pollution measurements taken at Nantes] (*with* **Quere, J.**), 21.8–145

Petit, M., *see* **Lejeune, G.**, 21.6–234

Pet'kova, V. P.
Metodika ucheta vliianiia agrotekhnicheskikh i sortovykh osobennosteĭ na velichinu urozhaia ozimoĭ pshenitsy [Method of calculating agrotechnical influences and quality characteristics on the size of the winter wheat harvest], 21.1–53
See also **Konstantinov, A. R.**, 21.2–325

Petrášová, M., *see* **Čupka, Š.**, 21.1–347; 21.3–403

Petrenko, N. V.
Osobennosti vertikal'nogo raspredeleniia vetra v sloe 500–10 mb [Peculiarities of the vertical wind distribution in the 500–10-mb layer], 21.7–506

Petri, Winfried
Neue Tiefensondierung der Venus-Atmosphäre [New depth sounding of the Venus atmosphere], 21.8–741

Petrichenko, I. A.
Prognoz traektorii vozdushnykh chastitsi uporiadochennykh vertikal'nykh dvizhenii po 4-urovennoi chislennoi skheme [Forecasting the trajectories of air particles and ordered vertical movements with a four-stage statistical scheme], 21.12–141
See also **Bachurina, A. A.**, 21.12–50

Petriconi, Gianna L.
On the decomposition of ammonium nitrate in the atmosphere (*with* **Papee, H. M.**), 21.6–164

Petrie, L. E.
On prediction of F-layer penetration frequencies (*with* **Lockwood, G. E. K.**), 21.10–178
See also **Jelly, D. H.**, 21.7–191

Petrof, Robert C.
Thermal stresses in a rotating cylinder heated by solar radiation (*with* **Raynor, S.**), 21.6–358

Petrosiants, M. A.
O poluchenii srochnoĭ informatsii o vetrovom rezhime verkhneĭ atmosfery metodom radiolokatsii meteornykh sledov [The reception of urgent information about wind regime of the upper atmosphere with a method of radio-location of meteor trains] (*with others*), 21.4–240
[Obituary of] **Victor Vasilievich Sinelshikov**, 21.1–73
See also **Sulakvelidze, G. K.**, 21.12–181

Petrov, A. A.
O metode ob″ektivnogo analiza, osnovannom na polinomial'noĭ approksimatsii poleĭ [Method of objective analysis, based on the polynomial approximation of fields], 21.6–17

Petrov, G. N., *see* **Petrova, R. S.**, 21.2–553

Petrov, I. G.
Ledovye usloviia v raĭone Mirnogo v 1965/66 g. [Ice conditions in the Mirniy area, 1965/66] (*with* **Chikovskiĭ, S. S.**), 21.8–810
See also **Ostrekin, M. E.**, 21.8–39

Petrov, V. N.
Nakoplenie snega na profile stantsiia Molodezhnaia–200-ĭ kilometr [Snow accumulation on the profile between Molodeznaya Station and the 200th-km height] [and English transl.], 21.5–633

Petrova, L. V.
  Raschet dlinnovolnovogo pritoka pri malom razreshenii po vertikali [Calculation of the long-wave influx in the case of rough vertical resolution] (*with* **Feĭgel’son, E. M.**) [and English tranls.], 21.3–512

Petrova, M. S.
  Opredelenie vlazhnosti vozdukha ob″emnym metodom [Determination of air humidity by a volumetric method] (*with* **Peskova, G. V.**) [and English transl.], 21.4–7

Petrova, R. S.
  New method of mapping the water resources (*with* **Zinov’eva, E. M.** and **Petrov, G. N.**), 21.2–553
  Ozera vodosbora Kuĭbyshevskogo vodokhranilishcha v predelakh Tatarskoĭ ASSR [Lakes of the catchment basin of the Kuibyshev reservoir in the Tatar A.S.S.R.] (*with* **Gubaeva, S. N.**), 21.4–600

Petrovič, Pavel
  Metodika opredeleniia summarnoĭ radioaktivnosti beta schetchikom g.-m. [Method of determining total beta radiation with a geiger counter], 21.1–209
  See also **Nováková, E.**, 21.1–342

Petrovič, Štefan
  Komplexná klíma Bardejovských kúpel’ov [Complex climate of the Bardejov Spa], 21.9–391
  Komplexná klíma Trenčianskych Teplíc [Complex climatic evaluation of Trencianske Teplice], 21.6–638
  Porovnanie typov počasia na Štrbskom Plese podl’a dynamickoklimatického a komplexneklimatichého hodnotenia [Comparing climatic types at Strbske Pleso according to dynamic climatological and compound climatological evaluation], 21.6–667
  Ročný chod teploty vzduchu na Lomnickom Stíte [The annual air temperature pattern over the Lomnice Mountain Peak], 21.10–307

Petrovskiĭ, Iu. S.
  Surovaia zima [Hard winter], 21.2–183

Petrushevskiĭ, V. A.
  Kompleks apparatury dlia avtomaticheskogo polucheniia i obrabotki radiolokatsionnykh meteorologicheskikh dannykh [Apparatus combinations for automatically obtaining and processing meteorological radar data] (*and others*), 21.1–119

Pettersen, H., *see* **Haug, A.**, 21.11–188; **Kvifte, G. J.**, 21.9–446; **Omholt, Anders**, 21.10–519

Petterssen, Sverre
  Introduction to meteorology, 21.1–15

Péwé, Troy L.
  Periglacial environment, past and present (ed.), 21.5–488

Pezhemskaia, M. D.
  Kharakteristika melkomasshtabnykh neodnorodnostei Ee i E nad Irkutskom [Characteristics of small-scale Es and E irregularities over Irkutsk], 21.12–290

Pfeffer, Gene J.
  Ionospheric radio communications, 21.9–176

Pfeffer, Richard L.
  Available potential energy in a quasi-geostrophic atmosphere, 21.2–83

Pfitzer, K. A.
  Intensity correlations and substorm electron drift effects in the outer radiation belt measured with the OGO-3 and ATS-1 satellites (*with* **Winckler, J. R.**), 21.10–287

Pfotzer, G.
  Röntgenstrahlungseinbrüche in die Polarlichtzone [X-ray incursion into the auroral zone], 21.6–412

Pham, H. L., *see* **Rousseau, D.**, 21.10–147

Pham, Van Dinh
  Contribution à la technologie des modèles de dilution des noyaux d’iodure d’argent [Contribution to the technology of silver iodide nuclei dilution models], 21.10–129
  Evolution d’un cumulus congestus à racine convective et (ou) orographique [Evolution of a cumulus congestus with a convective and (or) orographic origin], 21.10–92R

Phan, Ba Thanh
  Analyses spectrales moyennes mensuelles de l’altitude des surfaces isobares des deux hémisphères [Mean monthly spectral analysis of the altitude of the isobaric surfaces of two hemispheres: fixing on a mean monthly altitude], 21.6–476

Phelps, G. T.
  Simultaneous measurement of humidity and temperature fluctuations (*with* **Pond, S.** and **Gorner, U.**), 21.9–243
  See also **Layton, R. G.**, 21.7–46

Phibbs, R. Gary, *see* **Staffanson, Forrest L.**, 21.11–28

Philip, J. R.
- Moisture equilibrium in the vertical in swelling soils, Pt. 1, Basic theory, 21.8–495

Philippines. National Committee [for International Conference on Water for Peace]
- General water conditions of the Republic of the Philippines, 21.11–95R

Philippines. Weather Bureau
- Annual report, Fiscal Year 1966–1967, 21.9–122R

Phillips, Byron B.
- Water load in convective storms and its influence on storm kinetics, 21.5–614

Phillips, R. J.
- Dipole radiation in the lunar environment, 21.9–495

Phillpot, H. R.
- Antarctic stratospheric warming reviewed in the light of 1967 observations, 21.2–202
- Study of the synoptic climatology of the Antarctic, 21.4–359

Philpot, John W.
- Probability forecasts of 30-day precipitation (*with* **Krutchkoff, R. G.**), 21.8–105

Physical Studies, Inc., Dayton, Ohio, *see* **Breene, R. G., Jr.,** 21.1–419

Piaget, Alexandre
- Étude synoptique de cas particuliers de la distribution horizontale et verticale de l'ozone atmospherique [Synoptic study of particular cases of horizontal and vertical distribution of atmospheric ozone], 21.5–229

Piatnenkov, B. A.
- Neperiodicheskie kolebaniia priamoĭ solnechnoĭ radiatsii v Antarktike [Nonperiodic variations of direct solar radiation in the Antarctic], 21.8–238

Piatovskaia, N. P., *see* **Shifrin, K. S.,** 21.11–23R

Picandet, Pedro E.
- Caso practico de aplicación del método del diagrama unitario en la determinación de la pérdida inicial potencial e infiltracíon [Case study on the use of the unit hydrograph in determining potential initial loss and infiltration], 21.6–754

Pícha, Jan, *see* **Skalský, L.,** 21.2–778

Picherit, François
- Étude expérimentale, par radiométrie Hertzienne, de la propagation d'ondes electromagnétiques de 35 GHz dans l'atmosphere [Experimental study by Hertz radiometry of the propagation of electromagnetic waves in the 35 HGz band], 21.10–582

Pichler, H.
- Zur Frage von Produktion und Reduktion von zyklonaler und antizyklonaler Vorticity [The problem of production and reduction of cyclonic and anticyclonic vorticity] (*with* **Reuter, H.**), 21.6–327
- *See also* **Cehak, K.,** 21.6–716

Pichon, J., *see* **Brunelle, P. E.,** 21.10–76

Pick, M. A.
- Specific heat of ice Ih, 21.6–812

Pickett, R. A., *see* **Brinton, H. C.,** 21.11–175

Piddington, J. H.
- Cosmic electrodynamics, 21.11–548
- Io und Jupiters Radiostrahlung [Radio emission of Io and Jupiter], 21.2–431

Piech, Kenneth R.
- Identifying and measuring the pollutants in our waterways, 21.7–809

Piehl, Hans Dieter
- Die Ermittlung der Temperaturverhältnisse in gedeckten Güterwagen auf Grund klimatologischer Unterlagen [Determination of the temperature conditions inside freight cars on the basis of climatological records], 21.6–431
- Klimatologische Auswertungen zur Darstellung der technisch wichtigen meteorologischen Einflussgrösse Schlagregen [Climatological data applicable to the problem of driving rain as an important meteorological parameter in building construction], 21.10–395

Pierce, Allan D.
- Atmospheric correction factor for sonic-boom pressure amplitudes (*with* **Thomas, C. L.**), 21.7–728
- Theoretical source models for the generation of acoustic-gravity waves by nuclear explosions, 21.5–682

Pierce, Charles H.
- Boston's heaviest snowstorm of record, 21.8–436

Pierce, E. T.
- Counting of lightning flashes, 21.12–118
- Latitudinal variation of lightning parameters, 21.8–634
- Monitoring of global thunderstorm activity, 21.10–257
- Sferics and [Comments by] **Heinz W. Kasemir,** 21.7–725
- *See also* **Oetzel, G. N.,** 21.7–724

Piercy, J. E.
- Role of the vibrational relaxation of ni-

trogen in the absorption of sound in air, 21.8–662

Pierrard, J. M., *see* **Charlson, R. J.**, 21.6–171

Pierson, D. H.
Transfer of nuclear debris from southern to northern troposphere during 1968 (*with others*), 21.12–348

Pietryga, Zofia
W sprawie przebudowy technicznej sieci posterunków wód gruntowych w Polsce południowej [Technical reorganization of the groundwater station network in the southern part of Poland], 21.2–518

Piguzova, V. M. (ed.), *see* **Tolstikhin, O. N.** (ed.), 21.8–813

Piggott, M. R.
Feeling of dampness at low temperatures, 21.4–254

Pike, John G., *see* **Chidley, Thomas R. E.**, 21.10–359

Pikhtelev, A. I.
O nekotorykh kharakteristikakh kvantovogo generatora na parakh Rb^{87} [Some characteristics of laser on Rb^{87} vapors] (*with* **Obydennov, G. V.**), 21.8–703

Pikhtovnikov, N. A., *see* **Iaroslavtsev, N. A.**, 21.10–768

Pikush, N. V.
Ustroistvo dlia izmereniia stoka vody na poliakh sevooborota [A device for measuring the water runoff on crop rotation fields], 21.12–550

Pilat, M. J., *see* **Charlson, R. J.**, 21.6–170

Pilié, Roland J.
Review of Project Fog Drops, 21.4–268
Verification in laboratory seeding experiments, 21.5–198
See also **Kocmond, W. C.**, 21.7–111

Pilipowskyj, S.
Some thoughts on sounding the atmosphere from satellites, or why we should not throw away the radiosondes just yet, 21.10–66

Pimenov, I. A.
K voprosu o sisteme kodirovaniia eksperimental'nykh dannykh po variatsiian kosmicheskikh lucheĭ [System of experimental data encoding in cosmic ray variation], 21.10–302
K voprosu ob obrabotke dannykh stantsiĭ kosmicheskikh lucheĭ [Processing of the data of cosmic-ray stations], 21.10–303

Pimentel, George C., *see* **Herr, Kenneth C.**, 21.10–614

Pinder, George F.
Determination of aquifer diffusivity from aquifer response to fluctuations in river stage (*with* **Bredehoeft, J. D.** and **Cooper, H. H., Jr.**), 21.4–563

Pingree, R. D.
Small-scale structure of temperature and salinity near Station Cavall, 21.4–709

Pinigina, I. A., *see* **Kachmar, E. G.**, 21.9–126

Pinkhasov, A. M., *see* **Abshaev, M. T.**, 21.11–39

Pinna, Mario
Variazioni del clima in epoca storica e i loro effetti sulla vita e le attività umane [Climatic variation in historic periods and its effect on human life and activities], 21.6–646

Pinter, Stefan
Longitudinal distribution of X-bremsstrahlung on the solar disc, 21.8–292
Some relations between 3 cm solar radio bursts, flares, X-rays and geomagnetic crochets, 21.6–413
See also **Křivský, L.**, 21.11–636

Pinus, N. Z.
Issledovaniia struktury vozdushnykh techeniĭ [Investigations of the atmospheric motions structure], 21.3–630
Ob istochnikakh energii mezo- i mikromasshtabnykh turbulentnykh dvizheniĭ v svobodnoĭ atmosfere [Energy sources of meso- and microscale eddy motions in the free atmosphere], 21.2–227
Spektry gorizontal'nogo turbulentnogo perenosa kolichestva dvizheniia i tepla v troposfere i stratosfere [Spectra of the horizontal turbulent transfer of momentum and heat in the troposphere and stratosphere], 21.8–333

Piotrovich, V. V.
O primenenii gidrofobnykh veshchestv dlia bor'by s obraovaniem vnutrivodnoga l'da na sooruzheniiakh GES i vodoprovodov [The use of hydrophobious substances to control the formation of frazil ice on structures of hydro-electric power stations and water pipes], 21.7–819
Vozmozhnosti prognoza tolshchiny ledianogo pokrova v nachale ledostava na rekakh Enisee i Lene [Possibilities of forecasting the thickness of ice covers on the Yenisei and Lena Rivers] (*with* **Amineva, V. Ia.**), 21.4–615

Piper, Arthur M.
  Water budget of the Carson Valley, Nevada, 21.2–568
Piranashvili, Z. A., *see* **Svanidze, G. G.,** 21.12–676
Pirro, Roberto, *see* **Visconti, I.,** 21.1–398
Pisareva, V. V., *see* **Grosheva, N. M.,** 21.12–301
Piscalar, F.
  Ozonoradiosonden zur Bestimmung der vertikalen atmosphärischen Ozonverteilung [Ozone radiosondes in the determination of the vertical distribution of ozone in the atmosphere], 21.6–117
  See also **Paetzold, H. K.,** 21.5–331
Pisharoty, P. R.
  Global atmospheric Research Programme (GARP), 21.11–98R
Pita Carpenter, Alfonso
  Clima y vegetación arbórea [Climate and tree cover], 21.1–43
Pitaevskiĭ, L. P., *see* **Gurevich, A. V.,** 21.11–187
Piton, B., *see* **Donguy, J. R.,** 21.7–833
Pitsyk, I. V.
  Povtornaia vystonaia uviazka vodpostov Kuĭbyshevskogo vodokhranilishcha vodnoĭ nivelirovkoĭ [Repeated height coordination of gaging stations on the Kuibyshev Reservoir by means of water leveling], 21.4–601
Pittock, A. B.
  Seasonal and year-to-year ozone variations from soundings over South-Eastern Australia, 21.1–327
Pitts, James N., Jr.
  Film actinometer for measurement of solar ultraviolet radiation intensities in urban atmospheres (*with* **Cowell, G. W.** and **Burley, D. R.**), 21.4–23
  Photochemical air pollution: singlet molecular oxygen as an environmental oxidant, 21.12–253
  See also **Metcalf, Robert L.,** 21.12–248
Pivovarova, Z. I.
  Obluchenie sten zdaniĭ solnechnoĭ radiatsieĭ v razlichnykh geograficheskikh raĭonakh [Irradiation of the walls of a building by solar radiation in different geographic regions], 21.5–430
Piwkowski, Henryk, *see* **Lityńska, Z.,** 21.6–149
Pizzella, G., *see* **Egidi, A.,** 21.2–135
Planin, Iu. G., *see* **Chapovskaia, E. V.,** 21.7–527
Plank, Vernon G.
  Clearing ground fog with helicopters, 21.2–254
  Cloud modification by helicopter wakes (*with* **Spatola, A. A.**), 21.3–303
Plass, Gilbert N.
  Effect of changes in complex part of the refractive index on polarization of light scattered from haze and clouds (*with* **Kattawar, G. W.**), 21.7–712
  See also **Kattawar, G. W.,** 21.3–509
Platagea, Gheorghe
  Analiza stratului scurgerii maxime şi a metodicii de construire a hidrografului viiturii de calcul pe rîuril din Republica Socialistă România [Analysis of the maximum strata outflow and the method of designing a high-flood calculation hydrograph on the rivers of Rumania], 21.10–717
Plate, E. J., *see* **Arya, S. P. S.,** 21.1–314; **Hess, G. D.,** 21.2–781
Platt, C. M. R.
  Broad-band thermal radiometer at 1.2 mm using a Putley detector, 21.5–109
Platt, Trevor
  Concept of energy efficiency in primary production, 21.6–352
Plaude, N. O.
  Ice-nucleating ability of pholoroglucinol, 21.12–196
Plaut, Z.
  Effect of soil moisture regime and row spacing on grain sorghum production (*with* **Blum, A.** and **Arnon, I.**), 21.10–437
Plavcová, Z.
  Radar observations of the Leonids in 1965–1966, 21.11–609
  See also **Grygar, J.,** 21.9–518
Plebuch, Raymond O.
  Water resources of Clark, Cleveland and Dallas Counties, Arkansas (*with* **Hines, M. S.**), 21.11–717
  See also **Lamonds, A. G.,** 21.4–544
Pleiss, H.
  Die Entwicklung der Forstmeteorologie in Tharandt [Development of forest meteorology at the Tharandt Academy of Forestry (near Dresden)], 21.10–473
  Neue Methode der Niederschlagsmessung [New method for precipitation measurements], 21.6–93
Pliego, J. M.
  Spain (*with* **Pazos, J. M.** and **Pardo, J.**), 21.11–95R

Plitkin, G. A.
- Summarnoe isparenie s poverkhnosti sushi Zapadno-Sibirskoi ravniny [Evapotranspiration from the ground surface of the West Siberian Plain], 21.7–535

Plotkin, Kenneth J., *see* **George, A. R.**, 21.5–684

Plovina, I. P., *see* **Kornienko, E. E.**, 21.7–121

Pluhowski, E. J.
- Water-balance equation for the Rathdrum Prairie groundwater reservoir, near Spokane, Washington (*with* **Thomas, C. A.**), 21.1–781

Plummer, William T.
- Infrared reflectivity of frost and the Venus clouds, 21.8–742
- Venus clouds (*with* **Carson, R. K.**), 21.5–708

Plunkett, Robert D.
- Okeanologii, 21.2–654
- Okeanologii (Pt. 2), 21.3–761
- Okeanologii, 21.9–674

Pochapsky, T. E., *see* **Stone, Julian**, 21.9–686

Pochop, L. O.
- Sky cover measured by scanning photograms (*with* **Shanklin, M. D.**), 21.10–379

Podgurskaia, V. N.
- Kharakter verkhneĭ poverkhnosti vnutrimassovykh oblakov St–Sc i sviaz ego s nekotorymi meteorologicheskimi parametrami [The nature of the upper surface of intramass St–Sc clouds and its relationship to some meteorological parameters] (*with* **Polovina, I. P.**), 21.10–373
- Ob otsenke izmeneniĭ vo vremeni temperaturnogo rezhima St–Sc po dannym samoletnogo zondirovaniia [Evaluation of temporal changes in the thermal regime of St–Sc from aircraft sounding data] (*with* **Polovina, I. P.**), 21.10–374
- Radiolokatsionnye issledovaniia polos iskusstvennykh osadkov [Radar investigation of zones of artificial precipitation] (*with* **Polovina, I. P.**), 21.1–120

Podlaha, M.
- Statistical evaluation of sulfur dioxide measurements in Northern Bohemia, 21.7–151

Podvishenskaia, N. Ia.
- Influence of the time increment and of irregular precipitation on the accuracy of computation of the flow hydrograph, 21.10–36R
- Primenenie metoda mnozhestvennoĭ korreliatsii dlia prognoza urovneĭ vody v basseĭne r. Leny [Applying the plural correlation method for forecasting water levels in the Lena River basin], 21.2–590

Podzimek, Josef
- Contribution to the explanation of the motion of a falling column-like ice crystal, 21.1–562
- Effect of the time variable concentration of artificial nuclei on the phase transitions in the clouds, 21.12–517

Pogosian, Karen Surenovich
- Freezing resistance in grape vines (*with* **Sakai, A.**), 21.11–316

Pogosian, Kh. P.
- O prognoze vetra v sloe 12–24 km [The forecast of wind in the layer between 12 and 24 km] (*with* **Pavlovskaia, A. A.**), 21.3–256
- O rezhime atmosfernoĭ tsirkuliatsii pri otsutstvii poliarnykh l'dov [The regime of atmospheric circulation in the absence of polar ices], 21.6–300

Pogrebnoĭ, V. N.
- Elektricheskie polia v nizhneĭ ionosfere nad magnitnym ekvatorom [Electrical fields in the low ionosphere above the magnetic equator] (*with* **Fatkullin, M. N.**) [and English transl.], 21.5–352

Pohl, J., *see* **De Vuyst, A.**, 21.5–742

Pohn, Howard A., *see* **Wildey, Robert L.**, 21.9–490

Poje, Drazen
- Die sehr starken Winde über Jugoslawien [The maxima of upper winds above Yugoslavia], 21.7–508

Pokrovskaia, I. A.
- Control of meteorological instruments (*with* **Fateev, N. P.**), 21.10–38R
- *See also* **Klevantsova, V. A.**, 21.1–169; 21.8–55

Pokrovskaia, T. V.
- Climatological analysis of observations, 21.10–39R
- Weather forecasting and synoptic–climatological research (*with* **Esakova, N. P.**), 21.10–40R
- *See also* **Drozdov, O. A.**, 21.9–411

Pokrovskiĭ, A. G.
- Method of calculating the spectral absorption of infrared radiation in the atmosphere, 21.10–37R
- *See also* **Neporent, B. S.**, 21.3–76

Pokrovskiĭ, G. B.
O raspredelenii pul'satsionnykh skorosteĭ vetra v meteornoĭ oblasti atmosfery [Distribution of the velocity fluctuations in the meteor region of the atmosphere] (*with* **Starostin, V. M.** and **Teptin, G. M.**) [and English transl.], 21.4–241

Pokrovskiĭ, O. M.
Ob optimal'nykh usloviiakh kosvennogo zondirovaniia atmosfery [Optimal conditions of indirect atmospheric sounding], 21.9–22
See also **Kondrat'ev, K. Ia.**, 21.6–383; **Timofeev, Iu. M.**, 21.8–324

Poland. Panstwowy Instytut Hydrologiczno–Meteorologiczny
Opady atmosferyczne, 1964 [Precipitation, 1964], 21.11–72R
Rocznik Meteorologiczny, 1963 [Meteorological yearbook, 1963], 21.9–212R
Rocznik Meteorologicznyi, Tom 2, Zeszyt 4–9, 1967 [Meteorological yearbook, Vol. 2, No. 4–9, May–Sept. 1967], 21.9–211R

Polar Record [Cambridge, Eng.]
Arctic Sea ice studies with the aid of polar-orbiting satellites, 21.2–635
Meteorological stations in Iceland, 21.6–47
United States activities in the Antarctic, 1967–1968, 21.2–684

Polarforschung [Kiel]
Kurzbericht über die Feldarbeiten der der E.G.I.G. II, 1967–68 [Brief account of the field work by the EGIG 2, 1967/68], 21.1–141

Poletto, G., *see* **Godoli, G.**, 21.10–644; **Monsignori Fossi, B. C.**, 21.10–274

Polévitskiĭ, K. K.
Avtomaticheskiĭ nefelometr [An automatic nephelometer] (*with* **Shadrina, E. N.**), 21.8–76

Polevoĭ, A. N.
O vliianii agrometeorologicheskikh uslovii na fotosinteticheskuiu produktivnost' kartofelia v Zabaĭkal'e [The effect of agrometeorological conditions on the photosynthetic productivity of potatoes in the Zabaikal region], 21.10–466

Poliakov, V. M.
K teorii nevozmushchennogo sloia F2 [The theory of the undisturbed F2-layer], 21.10–179

Poliakova, E. A.
Research on atmospheric optics (*with* **Shifrin, K. S.**), 21.10–41R

Poliakova, K. N.
Kratkosrochnyĭ prognoz vskrytiia Sredne Leny [Short-term prognosis of the freeze-over of the middle Lena], 21.4–616

Poliakovskaia, I. D., *see* **Babak, I. F.**, 21.2–541

Polian, Georges, *see* **Lambert, Gerard**, 21.12–327

Polianskaia, V. A.
Vozbuzhdenie vnutrennikh voln ploskim frontom davleniia, peremeshchaiushchimsia s postoiannoi skorost'iu [Generation of internal waves by a pressure fron moving with constant speed], 21.12–809

Polianskiĭ, V. K., *see* **Rvachev, V. P.**, 21.2–344

Polish Spitsbergen Expeditions, 1957–1960
Summary of scientific results, 21.4–1

Polishchuk, A. I.
K voprosu o statisticheskoi strukture polia zimnikh osadkov [Statistical structure of fields of winter precipitation], 21.9–312
Problem of the statistical structure of the field of winter precipitation [Transl. from Russian], 21.5–619

Polkovnikov, Maksim Andreevich, *see* **Gural'nik, I. I.**, 21.5–9

Poll, J. D., *see* **Birnbaum, A.**, 21.6–696

Pollack, James B.
Nongray CO_2-H_2O greenhouse model of Venus, 21.9–507
Temperature structure of nongray planetary atmospheres, 21.6–698
See also **Eberstein, I. J.**, 21.8–734; **Hansen, James**, 21.7–565; **Morrison, David**, 21.9–515; **Sagan, C.**, 21.1–685; 21.9–508

Pollard, J. R., *see* **McAllister, L. G.**, 21.11–30

Poloskov, S. M.
Mesure de la température de la haute atmosphère dans la région polaire [Measurement of the temperature of the upper atmosphere in the polar region] (*with others*), 21.9–251

Polovina, I. P., *see* **Buĭkov, M. V.**, 21.10–126; **Leskov, B. N.**, 21.10–122, –123; **Podgurskaia, V. N.**, 21.1–120; 21.10–373, –374

Polozova, L. G.
Sovremennoe poteplenie klimata i vozmozhnaia ego prichina [Present-day warming of climate and its possible causes] (*with* **Sazonov, B. I.**), 21.5–475

Polska Akademia Nauk. Zakład Geofizyki
Atmospheric ozone, optics and aerosol of the atmosphere, Belsk, 1967, 21.9–213R

Polster, Gebhard
Erfahrungen mit Strahlungs-, Temperaturgradient- und Windmessungen als Bestimmungsgrössen der Diffusionskategorien [Experiences with radiation, temperature-gradient, and wind measurements as determination values for diffusion categories], 21.8–220

Polukarov, G. V.
Seiches in the Caspian Sea, 21.11–19R

Pomanskiĭ, A. A.
Prakticheskie vozmozhnosti ispol'zovaniia galliia i litiia v kachestve detektora solnechnykh neĭtrino [Practical possibilities of using gallium and lithium as solar neutrino detectors], 21.10–304
See also **Barabanov, I. R.**, 21.10–92

Pomerantz, Martin A.
Investigations of cosmic-ray intensity variations in Antarctica (*with* **Duggal, S. P.**), 21.7–418
See also **Jacklyn, R. M.**, 21.8–306

Pommereau, J. P., *see* **Blamont, J. E.**, 21.7–451

Pomraning, G. C.
Diffuse reflection from a semi-infinite atmosphere, 21.6–690

Pomytkin, B. A., *see* **Kuz'min, P. P.**, 21.5–561; 21.6–542

Pond, S., *see* **Phelps, G. T.**, 21.9–243

Ponnamperuma, Cyril, *see* **Woeller, Fritz**, 21.11–598

Ponomarenko, I. N.
K diagnozu i prognozu frontal'noĭ sloistoobraznoĭ oblachnosti v nizhneĭ i sredneĭ troposfere [Diagnosis and prognosis of frontal layer cloud formations in the lower and middle troposphere], 21.4–121
K voprosu opredeleniia zon frontov na vertiakal'nykh razrezakh [Determination of frontal zones in vertical cross-sections], 21.4–122
Prostranstvennaia struktura atmosfernykh frontov nad iugom Evropeĭskoĭ territorii SSSR (ETS) [Spatial structure of atmospheric fronts over the southern part of the European U.S.S.R.], 21.3–488
Vodoresursy i nekotorye kharakteristiki frontal'nykh oblakov nad Ukrainoĭ [Water reserves and some characteristics of frontal clouds in the Ukraine], 21.3–652
See also **Koshenko, A. M.**, 21.9–289

Ponomarenko, S. I.
Analiz uslovii voznikroveniia iskliuchitel'no krupnogo grada v g. Blagoveshchenske [Analysis of conditions for formation of exceptionally large hailstones in Blagoveshchensk], 21.12–547
K voprosu o vozniknovenii ochen' sil'nogo livnia [Occurrence of very heavy showers], 21.1–614
Sluchaĭ ochen' sil'nogo dozhdia v g. Lenkorani [Case of a very heavy rain in the city of Lenkorani] (*with* **Panova, G. D.**), 21.1–615

Ponomarev, B. P.
Raschet srednikh oblastnykh urozhaev iarovoĭ pshenitsy v Zapadnoĭ Sibiri po agrometeorologicheskim usloviiam s uchetom elementov produktivnosti rasteniĭ [Calculation of the mean regional harvest of spring wheat in Western Siberia from the agrometeorological conditions with allowance for elements of the productivity of plants] (*with* **Volchok, T. A.**), 21.6–146

Ponomarev, V. N., *see* **Matusov, A. L.**, 21.5–672

Ponomareva, S. M., *see* **Laĭkhtman, D. L.**, 21.7–254

Ponomareva, T. G., *see* **Gartsman, I. N.**, 21.9–29R

Pontikis, C.
Détection de la vapeur d'eau dans l'air atmosphérique par une méthode électrolytique (*with* **Rigaud, A.** and **Loitière, B.**), 21.7–23
Étude théorique de la détermination de la température de la mésosphère par un capteur thermorésistant (*with* **Brun, C.**), 21.6–29
Jauge d'ionisation pour la détermination de la vapeur d'eau dans l'air atmosphérique [Ionization gage for the determination of water vapor in the atmosphere: preliminary findings] (*with* **Brun, C.**), 21.6–32
Rétrodiffusion d'une onde radar centimétrique de la bande X sur une population de lames minces sphériques [Backscattering of an X-band radar wave in a group of thin spherical films], 21.11–49

Ponzi, S.
Atmospheric analysis device for balloon experiments, 21.12–120

Popchristov, P.
Erfahrungen mit der Hoekenklimaterapie bei Hautkrankheiten und Funktionelle

Untersuchungen zur Klimawirkung [Experience with high altitude climatic therapy in skin diseases and functional studies of the effect of climate] (*with* **Chlebarov, St.**), 21.8–556

Pope, J.
Winters in the southwest, 21.3–114

Pope, Thomas
Improvement of coronal emission line photographs, 21.10–659

Popescu, D., *see* **Magiricu, V.,** 21.3–37

Popescu, Mihail, *see* **Cioc, Dumitru,** 21.12–709

Popescu, Nicholae
Unele date privind dinamica albiei văii Cerna-Banat [Data on dynamics of the Cerna Banat river bed] (*with others*), 21.11–725

Popham, Robert W.
Satellite applications to snow hydrology, 1968, 21.3–668

Popkov, S. L.
Vychislitel'noe ustroĭstvo dlia opredeleniia dal'nosti vidimostĭ aerodromnykh ogneĭ vysokoi intensivnosti [A computer system for determining the visibility of high intensity airport lights], 21.8–568

Popkov, S. N., *see* **Bakayev, N. M.,** 21.10–421

Popov, B. M.
Zavisimost' znaka anomalii srednemesiachnoĭ temperatury letnikh mesiatsev ot osobennosteĭ predshestvuiushcheĭ atmosfernoĭ tsirkuliatsii [Dependence of a sign of the mean monthly temperature anomaly upon features of the preceding atmospheric circulation], 21.5–477

Popov, I. K.
Ispol'zovanie EMITa v okeanologicheskikh rabotakh Trinadtsatoĭ sovetskoĭ antarkticheskoĭ ekspeditsii [Use of the electromagnetic current meter in oceanographic operations of the Thirteenth Soviet Antarctic Expedition], 21.7–836

Popov, I. V., *see* **Chebotarev, A. I.,** 21.12–27

Popov, M. V.
K analizu pogreshnostei akusticheskikh chastotnykh datchikov skorosti vetra [The analysis of errors of acoustic frequency sensors of wind velocity], 21.8–64
Nekotorye metody postroeniia akusticheskikh datchikov parametrov vetra [Some methods for constructing acoustic sensors for wind parameters], 21.8–65
Ul'trazvulovye preobrazovateli dlia akusticheskikh anemometrov [An ultrasonic converter for acoustic anemometers], 21.8–61
See also **Fateev, N. P.,** 21.8–59; **Persin, S. M.,** 21.8–58

Popov, O. V., *see* **Chebotarev, A. I.,** 21.10–712

Popov, S. G.
O vremeni izmereniia udel'noĭ elektroprovodnosti vozdukha [The time of measurements of specific electric conductivity of air], 21.9–78

Popov, V. V.
Gigienicheskie problemy v Pavlodarskoĭ oblasti v sviazi s zaregulirovaniem Irtysha [Hygienic problems of the Pavlodarsk Region in connection with regulation of the Irtysh River] (*with others*) [and English transl.], 21.2–569

Popova, I. V., *see* **Boldyrev, V. M.,** 21.4–522

Popova, L. V.
Some results of measurements of the spectral transmission of the atmosphere under the conditions of upper-level clouds (**Babinov, I. Ia.**), 21.10–42R

Popova, T. P.
O strukture oblachnosti v tsiklonakh na iuge Evropeĭskoĭ territorii SSSR po snimkam s ISZ [Cloudiness structure in cyclones in the south of the European U.S.S.R. from satellite pictures], 21.2–257
See also **Bugaev, V. A.,** 21.11–78; 21.12–377

Popova, T. V.
O primenenii metoda momentov pri chislennom reshenii konechno-raznostnykh uravenii [Use of the method of moments for the numerical solution of finite-difference equations], 21.7–232

Popovich, L. V.
O vozmozhnosti rascheta temperatury pochvy na glubine 20 cm po dannym temperatury i vlazhnosti vozdukha, izmerennym na vysote 2 m [The possibility of calculating soil temperature at a depth of 20 cm from data on temperature and moisture of the air measured at a height of 2 m], 21.1–96

Pore, N. A.
Second interim report on sea and swell forecasting (*with* **Richardson, W. S.**), 21.4–756
See also **Richardson, W. S.,** 21.5–772

Poros, D. J., *see* **Sugiura, M.,** 21.11–211

Poroshin, A. P., *see* **Bakanov, V. A.**, 21.10–482

Porstendorfer, J.
Die Anlagerungsgeschwindigkeit der elektrisch geladenan und neutralen Emanationsfolgeprodukte an das atmospharische Aerosol [Velocity of attachment of electrically charged and neutral (radium) emanation decay products to the atmospheric aerosol], 21.12–329

Porteous, Andrew
A contribution towards the reduction of ice fog caused by humid stack gases at Alaskan power stations (*with* **Wallis, G. B.**), 21.11–377

Porter, C., *see* **Tandberg-Hanssen, E.**, 21.2–476

Porter, John M., *see* **Roberts, C. F.**, 21.4–26

Porter, Stephen C.
Weathering and soil-forming processes in the Antarctic dry valleys, 21.5–17

Porter, Warren P.
Thermodynamic equilibria of animals with environment (*with* **Gates, D. M.**), 21.6–658

Portig, W. H.
Evolution of the rainy season in the Caribbean and East Pacific Region and its contrast to the "zenithal" rain in Africa, 21.6–604

Portman, Donald J.
Local isotropy and refractive index fluctuations in the surface layer of the atmosphere, 21.6–14

Portniagin, Iu. I.
O diffuzii iskusstvennykh svetiashchikhsia oblakov [Diffusion of artificial luminous clouds] (*with* **Andreeva, L. A.**) [and English transl.], 21.5–39

Portugal. Serviço Meteorológico Nacional
Anuário Climatológico de Portugal, Pt. 1, Continente, Açores e Madeira (Observações de Superficie), Vol. 21, 1967 [Climatological Annual of Portugal, Pt. 1, The Continent, Azores and Madeira: Surface Observations, Vol. 21, 1967], 21.3–110; 21.11–73R
Anuário Climatológico de Portugal, Pt. 2, Territorios Ultramarinos (Observações de Superficie, Vol. 20, 1966 [Climatological Annual of Portugal, Pt. 2, Overseas Territories: surface observations, Vol. 20, 1966], 21.11–74R
Anuário Climatológico de Portugal, Pt. 3, Continente, Açores e Madeira (Observações de Altitude), Vol. 6, 1952 [Climatological Annual of Portugal, Pt. 3, The Continent, the Azores and Madeira: Upper air observations, Vol. 6, 1952], 21.11–75R
Anuário Climatológico de Portugal, Pt. 4, Territórios Ultramarinos (Observações de Altitude), Vol. 1–6, 1947–1952 [Climatological Annual of Portugal, Pt. 4, Overseas Territories: Upper air observations, Vol. 1–6, 1947–1952], 21.11–76R

Portune, J. E.
Satellite station for everyone (*with* **Owen, C. M.**), 21.10–37

Porubčan, V.
On the grouping of meteors in meteor streams, 21.11–610

Porubský, Anton
Prehlad o vodnom bohatstve Slovenska [Evaluation of the water balance in Slovakia], 21.3–642

Posadas, Carlos
Problema hidráulico integral de la Provincia de Buenos Aires [Integral hydrological problem in Buenos Aires province], 21.5–753

Posey, Julian W.
Weather and circulation of March 1969, 21.4–98
Weather and circulation of Sept. 1969: persistance of the August regime in the United States, 21.6–50
Weather and circulation of Dec. 1969: record Dec. snowfall in the northern and central Appalachian Mountains, 21.10–47

Posmentier, Eric S.
Probing the atmosphere with infrasound (*with* **Donn, W. L.**), 21.6–24

Posokhov, E. V.
Factors forming the chemical composition of precipitation, 21.12–531

Post, Austin
Distribution of surging glaciers in Western North America, 21.3–754
See also **Meier, Mark F.**, 21.11–747

Post, R. E.
Laboratory model studies of transhorizon radiowave propagation phenomena (*with* **Rost, D. F.**), 21.9–142

Postma, H., *see* **De Groot, S. J.**, 21.2–723

Potapova, L. S.
O nekotorykh osobennostiakh radiatsionnogo i teplovogo balansov basseĭna srednego techeniia r. Taz [Some characteristics of the radiation and thermal bal-

ance of the basin of the middle course of the Taz River], 21.9–209
Potapova, T. A., *see* **Smirnov, N. P.**, 21.7–282
Pottasch, S. R., *see* **Pecker, J. C.**, 21.9–547
Potter, J. G.
  Canadian national meteorological networks, 21.10–38
Potter, John F.
  Scattering and absorption in the Earth's atmosphere, 21.12–425
Potter, K. E. D.
  Approach to irrigation in Guyana with special reference to rice cultivation, 21.10–560
  Guyana (*with* **Naraine, S. S.**), 21.11–95R
Potter, W. E.
  Electric and magnetic field measurements near an auroral electrojet (*with* **Cahill, L. J., Jr.**), 21.8–196
Pouget, E., *see* **Orieux, A.**, 21.12–451
Pound, E. F., *see* **Baker, K. D.**, 21.10–95
Pounder, E. R., *see* **Ingram, R. G.**, 21.7–825; **Kvajić, G.**, 21.6–809
Pounds, K. A.
  Current developments in cosmic X-rays astronomy, 21.6–688
Pouquet, Jean
  Approach to the remote detection of Earth resources in sub-arid lands, 21.1–155
Pourney, J. C., *see* **Orszag, A.**, 21.9–115
Powell, D. B. B.
  Some laboratory and field investigations of the accuracy of Brewer–Mast ozone sensors (*with* **Simmons, E. L.**), 21.6–118
  See also **Else, C. V.**, 21.6–115
Powell, David C., *see* **Kao, S. K.**, 21.1–492
Powell, J.
  Year's weather at Termit, Republic of Niger (*with* **Pedgley, D. E.**), 21.5–659
Powell, James R.
  Structure of ball lightning (*with* **Finkelstein, D.**), 21.2–362
Powell, R. J., *see* **Croom, D. J.**, 21.2–423
Powers, W. L., *see* **Skidmore, E. L.**, 21.6–549
Pradhan, S. K., *see* **Datta, R. K.**, 21.3–225
Prakash, Satya
  Study of plasma noise in the lower ionosphere using rocket borne langmuir probe and plasma noise probe, 21.10–180
  Study of the lower ionosphere over the geomagnetic equator at Thumba using a Langmuir and plasma noise probe (*with* **Subbaraya, B. H.** and **Gupta, S. P.**), 21.10–181
Pranger, Maarten, *see* **Chisholm, J.**, 21.6–151
Prasad, Naresh
  Influence of microclimate on diurnal water relations in western wheatgrass leaves, 21.4–333
Prasad, S. S.
  Escaping photoelectrons and dayglow, 21.4–367
  See also **Green, A. E. S.**, 21.7–330
Prebble, M. M.
  Ice breakout, McMurdo Sound, Antarctica, 21.2–639
Preddey, G. F.
  Mid-latitude radio–satellite scintillation, 21.3–160
  Mid-latitude radio–satellite scintillation, the morphology near sunspot minimum (*with* **Mawdsley, J.** and **Ireland, W.**), 21.3–159
Prejml, Karel
  Agrometeorologické základsy signalisace perenospory [Agrometeorological bases for the prediction of hop blight], 21.4–347
Preobrazhenskiĭ, L. Iu.
  Raschet koeffitsienta turbulentnogo obmena v pripoverkhnostnom sloe vozdukha nad morem [Calculation of the exchange coefficient in the surface layer of air above the sea] [and English transl.], 21.4–206
Pressman, Jerome
  Stratosphere as a chemical sink for carbon monoxide (*with* **Warneck, P.**), 21.6–167
  See also **Carpenter, R. O.**, 21.9–117
Pribiš, Ján
  Prízemné nočné inverzie teploty v oblasti Popradu a Prahy [Nocturnal inversions of atmospheric temperatures near the ground in the Poprad and Prague area], 21.2–196
Pribluda, V. D.
  O programme i metodike izucheniia elementov vodnogo balansa basseina karstvoykh vod iugozapadnoi chasti gornogo Kryma [The program and methods for studying the elements of the water balance of a karst water basin in the southwestern part of the Crimea Mountains], 21.7–779
Priboeva, N. V., *see* **Grigor'eva, Z. N.**, 21.11–584

Price, Albert T.
Daily variations of the geomagnetic field, 21.1–682
Price, Monty A., *see* **Stephens, Edgar R.**, 21.8–148
Price, R. M.
Measurement of the sky brightness temperature at 408 MHz, 21.5–44
Priese, J.
Absolute calibration method and technique of the daily patrol of the solar flux density at 1970 MHz, 21.11–555
Priester, W., *see* **Harris, I.**, 21.7–157
Prihar, S. S., *see* **Acharya, C. L.**, 21.5–552
Prik, Z. M., *see* **Dolgin, I. M.**, 21.3–12
Prill, Robert C.
Movement of moisture in the unsaturated zone in a dune area, southwestern Kansas, 21.2–564
Prilutskiĭ, O.
Vzaimodeĭstvie kosmicheskikh chastits s izlucheniem v rasshiriaiushcheĭsia vselennoĭ [The interaction of cosmic particles with emission in the broadening universe] (*with* **Rosental', I.**), 21.10–596
Primault, B.
Climat et la viticulture [Climate and viticulture], 21.6–659
Pritchard, D. W., *see* **Okubo, Akira**, 21.8–842
Prive, M., *see* **Donguy, J. R.**, 21.1–754
Probáld, Ferenc
Városi és városperemi állomás hőmérsékleti különbségének napi járása Budapesten [Diurnal variation of the temperature differences between downtown and suburb stations], 21.2–180
Procacci, A.
Anemologia locale [Local wind study], 21.8–336
Il caldo e il freddo a Pesaro: la temperatura dal 1881 al 1964 [Cold and heat at Pesaro: temperatures from 1881–1964], 21.3–316
Prodi, Franco
Distribution of contaminants in ice grown by accretion (*with others*), 21.12–548
See also **Morgan, G.**, 21.5–641
Prodi, Vittorio, *see* **Prodi, Franco**, 21.12–548
Progar, Donald J., *see* **Wade, W. R.**, 21.4–24
Progress in Oceanography, Oxford, England
Vol. 5, 21.10–789
Prohaska, John T., *see* **DeVorkin, D. B.**, 21.5–32
Prokakis, T. J., *see* **Macris, C. J.**, 21.2–463
Prokhorenko, M. M.
O sil'nom gololede na iuge Odesskoĭ oblasti [The heavy icing in the Odessa region] (*with* **Raevskiĭ, A. N.** and **Glushkova, T. A.**), 21.10–368
Prokhorov, P. S., *see* **Leonov, L. F.**, 21.12–185
Prophet, David T.
Vertical extent of turbulence in clear air above the tops of thunderstorms, 21.12–473
Prosekina, G. M.
Nekotorye osobennosti tsirkuliatsii atmosfery i teplovogo sostoianiia okeana v sezonakh predzim'ia i zimy [Some characteristics of atmospheric circulation and the oceanic thermal condition during the prewinter and winter] (*with* **Emel'ianova, L. P.**), 21.9–246
Prospero, Joseph M.
Continental dust in the atmosphere of the eastern equatorial Pacific (*with* **Bonatti, E.**), 21.6–181
Radon-222 in the North Atlantic trade winds: its relationship to dust transport from Africa (*with* **Carlson, T. N.**), 21.12–330
Protas'ev, M. S.
Raschet i prognoz ob'ema vesennego stoka v basseine r. Dona (do st-tsy Kazanskoi) po osnovnym gidrometeorologicheskim faktoram [Calculation and forecast of the volume of spring runoff in the Don River basin at Kazanskaip from basic hydrometeorological factors], 21.12–705
Protasov, S. N.
O sutochnom khode temperatury v poverkhnostnom i sloiakh moria i atmosfery pri peremennykh koeffitsientakh turbulentnogo obmena tepla [Diurnal temperature variations in the surface and near water layers of sea and atmosphere in the case of variable coefficients of turbulent heat exchange], 21.7–435
Protopopescu-Pache, Emanuel I.
Apele minerale sulfuroase de la Turnu Severin [Sulphurous mineral waters from Turnu Severin] (*with* **Constantinescu, G. P.** and **Barbu, I.**), 21.1–784
Protopopov, N. G.
Vliianie momentov treniia i nagruzki anemometra na tochnost' izmereniia skorosti vetra [The effects of friction

and load on the accuracy of wind velocity measurements by an anemometer], 21.9–63
Prudhomme, P., *see* **Le Saget, A.**, 21.11–705
Pruitt, W. O., *see* **Lourence, F. J.**, 21.4–332
Pruppacher, H. R., *see* **Beard, K. V.**, 21.4–285; **LeClair, B. P.**, 21.7–547
Pshenaĭ-Severin, S. V.
Perekhodnye protsessy v modeli konvektivnoĭ sistemy [Transient processes in a convection system model] [and English transl.], 21.6–521
Puchkov, V. V., *see* **Dziubenko, E. V.**, 21.3–302; **Vimberg, G. P.**, 21.11–32R
Pudovkin, M. I.
On the theory of polar substorms (*with* **Shumilov, O. I.**), 21.10–288
See also **Beliakova, S. I.**, 21.1–374; **Kukushkina, R. S.**, 21.11–518
Pueschel, R. F.
On the anomalous deliquescence of sea-spray aerosols (*with* **Charlson, R. J.** and **Ahlquist, N. C.**), 21.6–182
See also **Charlson, R. J.**, 21.12–495
Pugsley, W. I.
Surface energy budget of central Canada, 21.11–222
Pukush, N. V.
Prosteĭshiĭ sposob rascheta transformatsii pavodochnoĭ volny [The simplest method of calculating flood wave routing], 21.5–765
Pupyshev, Iu. A., *see* **Bel'kovich, O. I.**, 21.10–635
Purcell, J. D., *see* **Tousey, R.**, 21.2–507
Purdy, D. R., *see* **Mastenbrook, H. J.**, 21.7–169
Puri, R. K.
Flux and spectrum of primary hydrogen nuclei near geomagnetic equator (*with* **Aditya, P. K.**), 21.3–541
Purvis, John C., *see* **Kish, Alex J.**, 21.10–45
Pushkarev, V. F.
Issledovaniia effektivnosti monomolekuliarnykh plenok v umen'shenii ispareniia [Study of the effectiveness of monomolecular films in reducing evaporation] (*with* **Pashkevich, B. V.**), 21.6–545
Putnins, Paul
Einige Besonderheiten im järlichen Gang der Luftzirkulation über Alaska [Some peculiarities in the annual variation of atmospheric circulation over Alaska], 21.6–301
Weather situations in Alaska during the occurrences of specific baric weat
patterns (*with* **Langdon, L. C.**), 21.1
263
Pyatt, Edwin E., *see* **Moreau, David**
21.12–699
Pyldmaa, V. K.
Nekotorye statisticheskie kharakterist
summarnoĭ radiatsii v oblachnykh us
viiakh [Some statistical parameters
total radiation for cloudy conditio
(*with* **Timanovskaia, R. G.**), 21.1–
See also **Mullamaa, Iu. A. R.**, 21.12–41
Rozenberg, G. V., 21.7–331
Pytkowicz, R. M., *see* **Culberson, C.**, 21.
796, –801; **Kester, Dana R.**, 21.9–699

Q

Qashu, Hasan K.
Infiltration and water depletion in lysi
eters, 21.5–656
See also **Lyford, Forest P.**, 21.7–655
Quagliariello, M. T., *see* **Lo Bascio,**
21.1–351
Quenby, J. J.
Radial and azimuthal components of cos
ray streaming in interplanetary sp
(*with* **Hashim, A.**), 21.7–419
Quenzel, Heinrich
Der Einfluss der Aerosolgrössenverteilu
auf die Messgenauigkeit von Streulic
messern [Influences in the atmosphere
the accurate measure of the light scatt
ing layer], 21.8–78
Quere, J., *see* **Petit, L.**, 21.8–145
Quessette, Jacques Alain
Mesure de la répartition vertical de l'h
drogène atomique entre 200 et 5
kilomètres d'altitude le 14 juin 19
[Measurement of the vertical distrib
tion of atomic hydrogen between 2
and 500 km altitude on June 14, 196
21.9–147
On the measurement of molecular oxyg
concentration by absorption spectrosco
21.7–163
Quinn, William H.
Prediction of abnormally heavy precipit
tion over the equatorial Pacific dry zo
(*with* **Burt, W. V.**), 21.6–139
Quintela, Roberto M.
Possibility of saline water conversion
the Argentine Republic, 21.9–692
Quiroz, Roderick S.
Warming of the upper stratosphere in Fe
ruary 1966 and the associated structu
of the mesosphere, 21.3–354

Quraishee, Malik Mohammed
Global solar radiation measurements at Kabul, Afghanistan, 21.3–184

R

Rabbidge, R. M., *see* **Peck, A. J.**, 21.5–142
Rabideau, S. W.
Structural studies of ice polymorphs by neutron diffraction, proton and deuteron nuclear magnetic resonance (*with* **Finch, E. D.**), 21.6–813
Rabinovich, Iu. I.
Determination of water surface temperature from radio emission in the centimeter range (*with* **Shchukin, G. G.** and **Melent'ev, V. V.**) [Transl. from Russian], 21.4–181; 21.9–63R
Determining the water vapor content in the atmosphere from measurements of microwave radiation (*with* **Shchukin, G. G.**), 21.9–64R
Opredelenie temperatury vodnoĭ poverkhnosti po radioizlucheniiu v santimetrovom diapazone [Determination of water surface temperature according to the radio emission in the centimeter range] (*with* **Shchukin, G. G.** and **Melent'ev, V. V.**), 21.2–212
Possible errors in absolute measurements of radio emission (*with* **Shchukin, G. G.** and **Volkov, V. G.**), 21.9–65R
Radio emission from clouds and precipitations (*with* **Shchukin, G. G.** and **Cherniak, M. M.**), 21.9–66R
See also **Shifrin, K. S.**, 21.9–77R; 21.3–77, –82; **Barashkova, E. P.**, 21.9–4R
Rachele, Henry, *see* **D'Arcy, E. M.**, 21.3–142
Rachkulik, V. I.
Sviaz' koeffitsienta iarkosti sistemy pochva-rastitel'nost' s nekotorymi parametrami rastitel'nogo sloia [Relationships between the brightness coefficient of the soil-vegetation system and some parameters of plant cover] (*with* **Sitnikova, M. V.**), 21.1–656
Rachner, M.
Radioisotopen-Kraft für Polarstationen [Radio isotope energy for polar stations], 21.1–125
Schneeverhältnisse im Selkegebiet in den wintern 1962/63 und 1964/65: Auswertung der Ergebnisse der Sondernetze [Snow conditions in the Selke River area during the winters of 1962/1963 and 1964/1965: analysis of the findings of the special network], 21.11–402
Some results of investigation and representation of snow supply and the melting of snow, 21.8–447
Wasserhaushalt der Schneedecke und seine Bedeutung im Rahmen des Gebietswasserhaushalts der Oberen Bode/Harz [Water budget of the snow cover and its significance in the context of the regional water budget of the upper Bode River, Harz Mts. area], 21.11–403
Radio Corporation of America
Final engineering report, TOS G meteorological satellite system, 21.9–50
Radke, Lawrence F.
Simultaneous measurements of cloud condensation nuclei and sodium containing particles in the atmosphere, 21.12–518
See also **Hobbs, P. V.**, 21.6–569
Radnai, Katalin
Havas és hómentes parcellák talajhőmérséklete [Soil temperatures at snow-covered and snowless spots], 21.6–464
Radu, St.
Studiul variatiei diferitelor elemente radiometrice și meteorologice în timpul eclipsei de soare din 20 mai 1966 [Oscillation study of the various radiometric and meteorological elements involved in the solar eclipse of May 20, 1966] (*with* **Mihai, M.** and **Drăghicescu, P.**), 21.3–101
Rădulescu, Sirena, *see* **Chiriac, V.**, 21.3–552
Raethjen, Paul
Dreimassen-Modell der allgemeinen Zirkulation [A triple-mass model of total circulation], 21.7–277
Raevskiĭ, A. N.
O vliianii oblachnosti i skorosti vetra v meste nabliudeniia na iakost' dnevnogo neba nad vodnoĭ poverkhnost'iu [Influence of cloudiness and wind velocity at the observation post on the brightness of the daylight sky above the water space] [and English transl.], 21.2–128
See also **Prokhorenko, M. M.**, 21.10–368
Rafailova, Kh. Kh.
Preemstvennost' i sopriazhennost' poleĭ izanomal nad otdel'nymi sektorami severnogo polushariia i prognoz sredneĭ mesiachnoĭ temperatury vozdukha nad territorieĭ SSSR [Continuity and conjugation of fields of isanomals over individual sectors of the Northern Hemi-

sphere and forecasting mean monthly atmospheric temperature over the U.S.S.R.], 21.2–61

Raffa, Ugo
  Notes on groundwater research in Italy, 21.9–639
  Probable flood discharges of the Po River tributaries, 21.10–705

Raffo del Campo, José, *see* **Galmarini, Alfredo G.**, 21.8–342, –522

Ragan, Robert M.
  Ten-unit water level sensing and recording system (*with* **Hais, A. B.**), 21.9–580
  University federal cooperative program to provide watershed experience for hydrology students, 21.6–744

Raghavan, K.
  Satellite evidence of sea–air interactions during the Indian Monsoon, 21.9–51

Ragotzkie, Robert A., *see* **Bryson, R. A.**, 21.5–771

Rahău, Lidia
  Studiul stabilirii metodelor de selecţionare a situaţiilor atmosferice cu evoluţie analoagă [A study in setting methods to choose among analogue air situations] (*with others*), 21.3–295

Rahmatulla, M.
  Salient features of the stratospheric and mesospheric circulation during winter at Sonmiani (*with* **Jafri, S. A.**), 21.12–369

Rai, D. B., *see* **De Mendonça, F.**, 21.5–80

Rai, R. K.
  Dependence of nondeviative ionospheric absorption on solar zenith angle and frequency, 21.9–177
  Ionospheric absorption of radio waves during sunrise and sunset hours, 21.9–178

Raĭkova, Bl., *see* **Boteva, K.**, 21.1–793

Raimbault, Rene, *see* **Arnaud, Pierre**, 21.10–840

Rainey, R. C.
  Effects of atmospheric conditions on insect movement, 21.1–74

Rai Sircar, N. C.
  Isohyetal patterns over South India in relation to the locations of various storms/depressions of the Bay striking east peninsular coast during post monsoon season (*with* **Jayaraman, S.** and **Srinivasan, T. R.**), 21.8–392
  A study of wind distribution and associated dry or wet weather probability over Madras during monsoon and post-monsoon months (*with others*), 21.12–479

Raĭzer, P. Ia.
  Nekotorye voprosy proizvodstva i primeneniia kosmicheskoĭ s″emki za rubezhom [Process and use of space survey in foreign lands], 21.2–24

Rajagopala Rao, P.
  Improved design of a barometric glass table (*with* **Asija, P. K.**), 21.11–88

Rajan, R. S., *see* **Lal, D.**, 21.4–491

Rajani, H. J.
  Influence of exchangeable bases on moisture adsorption by soils at different humidities, 21.11–441

Rajappa, N., *see* **Viswanathan, K. S.**, 21.11–526

Rajaram, Girija
  Abnormal electron density distributions over Huancayo on disturbed days of IGY/IGC (*with* **Rastogi, R. G.**), 21.11–204
  North–south asymmetry of ionospheric storms: dependence on longitude and season (*with* **Rastogi, R. G.**), 21.7–198

Raja Rao, K. S.
  On the axial asymmetry of the geomagnetic disturbance field in the low latitudes, 21.5–733

Rajchl, J.
  Note on the head echo problem, 21.9–522

Rakhmanov, V. V.
  Hydrological forecasting in the U.S.S.R. (*with* **Shastin, A. P.**), 21.2–523
  Raspredelenie snegozapasov v rechnykh basseĭnakh [The distribution of snow deposits in river basins], 21.2–271
  Vyravnivanie empiricheskogo raspredeleniia snegozapasov v rechnykh basseĭnakh s pomoshch’iu krivykh Pirsona [Smoothing of the empirical distribution of snow reserves in river basins by means of Pearson curves], 21.10–399

Rakipova, L. R.
  General dynamics of the atmosphere and the theory of climate (*with* **Shvets, M. E.**), 21.9–67R
  Interaction between the upper and lower layers of the atmosphere, 21.6–315

Rakitina, A. P.
  Rezhim podzemnykh vod verkhnemelovogo vodonosnogo gorizonta na territorii Luganskoi oblasti [The regime of underground waters of the Upper-Cretaceous water carrying level in the Lugansk area territory] (*with* **Dvoskin, M. V.**), 21.11–704

Rákóczi, F., *see* **Dobosi, Z.**, 21.1–64

Rakotsi, F., *see* **Deshi, F.**, 21.5–6
Rakusa-Suszczewski, Stanisław
Thermics and chemistry of shallow water ponds in the Hornsund Area, Vestspitsbergen, 1960, 21.6–788
Ral’chovskiĭ, Tsv., *see* **Serafimov, K.**, 21.4–420
Ral’tsevich, N. D.
Rezul’taty teplobalansovykh nabliudeniĭ na sel’skokhoziaĭstvennom pole v raĭone Valdaia [Results of heat balance observations on an agricultural field in the Valdai district], 21.6–344
See also **Fedorov, S. F.**, 21.7–483
Rama, – –
Monsoon circulation from observations of natural radon, 21.3–611
Ramachandran, S.
New theory for cup anemometers, 21.10–77
Ramage, C. S.
[Comments on] **K. Ooyama:** Numerical simulation of the life cycle of tropical cyclones, 21.12–385
Hawaiian weather forecast studies, 21.9–92
Summer drought over western India, 21.2–264
Ramamurthi, K. M.
On the role of the perturbations of the southwest monsoon in relation to high level east wind maxima over India, 21.7–496
Raman, V.
Frequency analysis of rainfall intensities for Calcutta (*with* **Bandyopadhya, M.**), 21.8–398
Raman Kartha, K. R., *see* **Srivastava, P. S.**, 21.10–832
Ramana Murthy, Bh. V., *see* **Chaterjee, R. N.**, 21.5–203
Ramanadham, R.
Tropopause over India (*with others*), 21.6–197
See also **Viswanadham, Y.**, 21.3–502; 21.7–246
Ramanathan, K. R.
Second Umkehr observed in Zenith sky twilight and its interpretation (*with* **Angreji, P. D.** and **Shah, G. M.**), 21.5–451
Some meteorological results of the International Indian Ocean Expedition, 21.12–11R
Ramanna, G. R.
Relationship between depressions of Bay of Bengal and tropical storms of the China Sea, 21.6–335
Ramanujarao, K., *see* **Bhavsar, P. D.**, 21.7–503
Rama Rao, C.
Electron content measurements at Hyderabad using beacon satellite transmissions (*with* **Bhagiratha Rao, E.**), 21.10–182
Ramasastry, Jayaram
Conjugate echoes observed by Alouette-2 topside sounder at the longitudes of Singapore (*with* **Walsh, E. J.**), 21.6–238
Magnetospheric duct propagation research using Alouette-2 topside-sounder observations (*with* **Walsh, E. J.**), 21.3–388
Ramaswamy, C.
Basic causes of large-scale deficiency of southwest monsoon rainfall over India in 1965 and 1966, 21.5–513
Ramaty, Reuven
Gyrosynchrotron emission and absorption in a magnetoactive plasma, 21.10–579
Polarization reversal of solar microwave bursts (*with* **Holt, S. S.**), 21.12–598
See also **Holt, Stephen S.**, 21.10–656
Ramey, Everett H.
Study of the use of aerial and satellite photogrammetry for surveys in hydrology, 21.12–654
Ramos Magaña, José
Comparasión de los diversos anteproyectos estudiados para abastecimiento de agua a la ciudad de México [Comparison of various preliminary projects that have been studied in order to supply water to Mexico City] (*with* **Ortiz Santos, G.**), 21.4–530
Ramster, J. W.
Current system in the northern Irish Sea (*with* **Hill, H. W.**), 21.4–719
Ramzy, James Robert
Investigation of temperature fluctuations near the air–sea interface (*with* **Young, E. T., Jr.**), 21.11–308
Randall, J. M.
Wind profiles in an orchard plantation, 21.6–503
Rand Corporation, Santa Monica, Calif.
Weather-modification progress and the need for interactive research, 21.1–260
Randerson, Darryl
Numerical model for predicting the diffusion of sulfur dioxide in the atmosphere, 21.7–257

Randhawa, Jagir S.
Chemiluminescent ozone measurements, 21.12–122
Ozone measurements from a stable platform near the stratopause level, 21.3–365
Ozone measurements from a stable platform near the stratopause level, 21.4–59
Technical data package for rocket-borne ozonesonde, 21.7–70
Vertical distribution of ozone in the winter subpolar region, 21.3–366
Rangarajan, C.
Interhemispheric mixing of fallout debris in the monsoon regions (*with others*), 21.12–349
Seasonal variation of Beryllium-7 relative to Caesium-137 in surface air at tropical and subtropical latitudes (*with* **Gopalakrishnan, S.**), 21.12–333
Rangaswamy, S., *see* **Beynon, W. J. G.**, 21.3–371
Ran'kov, E. Ia., *see* **Gruza, G. V.**, 21.10–99
Ran'kova, E. Ia.
K voprosu o povyshenii informativnosti i snizhenii razmernosti vektora–prediktora pri veroiatnostnom prognoze [Increasing the informativeness and decreasing the size of the vector–predictor in probability forecasting], 21.3–281
See also **Gruza, G. V.**, 21.3–279
Rannie, W. F., *see* **McPherson, H. J.**, 21.8–466
Rantz, S. E.
Characteristics of logarithmic rating curves, 21.11–726
Rao, B. C. Narasinga
Ion, electron, and neutral temperatures derived from ion composition distribution, 21.1–673
Photoelectron flux and protonospheric heating during the conjugate point sunrise (*with* **Maier, E. J. R.**), 21.7–212
Rao, B. Ramachandra
Studies of horizontal drifts and travelling wave disturbances, 21.12–309
Rao, C. S. R.
Some observations on energetic electrons in the outer Van Allen zone during auroral substorms in relation to open and closed field lines, 21.9–448
Rao, Desiraju B.
Calculation of the steady state wind-driven circulations in Lake Ontario (*with* **Murty, T. S.**), 21.12–482
Effect of travelling disturbances on a rectangular bay of uniform depth, 21.4–237
Rao, G. A. N.
Floor frequency on the Krishna River, India, 21.8–476
Rao, Gandikota V.
An analytical study of the differential frictional effect on vortex movement, 21.11–272
Preliminary estimates of energy in a weak disturbance in the easterlies, 21.6–324
Role of differential friction and asymmetry of the total flow on hurricane movement, 21.3–265
Rao, Ganti L.
Latitude variation of the effect of magnetic activity on ionospheric drifts, 21.7–199
Rao, K. M., *see* **Gokhale, Narayan R.**, 21.10–406
Rao, S. M., *see* **Krishnamurthy, K.**, 21.10–561
Rao, U. R.
Uniform stratified layers in the equatorial E-region, 21.11–205
Rao, Y. P.
Origin of the summer monsoon current over the Arabian Sea (*with* **Desai, B. N.**), 21.10–336
Rapoport, Z. Ts., *see* **Belikovich, V. V.**, 21.8–162
Rapp, R. R.
More bight size flow patterns (*with* **Schutz, C.**), 21.11–249
Raschke, E.
Angular characteristics of the reflectance of the Earth–atmosphere system as obtained from a synchronous satellite, 21.6–365
Beobachtungen der Reflexionseigenschaften des Systems Erde–Atmosphäre und der Bewölkung über dem äquatorialen Pazifik von einem synchronen Satelliten aus [Observations of the reflex properties of the Earth–atmosphere system and of clouds over the equatorial Pacific from a synchronous satellite] (*with* **Bandeen, W. R.**), 21.6–366
Radiation balance of the planet Earth from radiation measurements of the satellite Nimbus-II (*with* **Bandeen, W. R.**), 21.10–265
Rasmusson, Eugene M.
Large-scale water vapor transfer in the atmosphere, 21.4–87
Rasmussen, J. L.
Moisture analysis of an extratropical cy-

clone (*with* **Furman, R. W.** and **Riehl, H.**), 21.6–328

Rasmussen, Søren
Hydrologiske undersøgelser ved Store Skjernå Kanal specielt vedrørende vandudsivningen, en foreløbig meddelelse systems [Hydrological problems along the Store Skjernå Kanal, especially the groundwater conditions in the adjoining areas], 21.3–643

Rasool, Ichtiaque
Jupiter, der "Rosette-Stein" des Sonnensystems [Jupiter, "the Rosetta-Stone" of the solar system], 21.11–592

Rasool, S. I., *see* **Hogan, J. S.**, 21.6–710; **McGovern, W. E.**, 21.6–363

Raspopin, G. A.
Formula ispareniia s poverkhnosti vody i rapy s uchetom turbulentnoĭ diffuzii v pogranichnom sloe [Formula of the free-water-surface and brine evaporation with consideration for eddy diffusion in a boundary layer], 21.6–546

Rastogi, R. A.
Simulation and hydrologic response of a drainage net of a small agricultural drainage basin (*with* **Jones, B. A., Jr.**), 21.9–649

Rastogi, R. G.
Lunar tidal oscillations in ionospheric absorption at Colombo, 21.2–77
See also **Chandra, Harish**, 21.8–169; **Rajaram, Girija**, 21.7–198; 21.11–204

Rasulkulov, M. S., *see* **Azimov, S. A.**, 21.2–159

Ratcliffe, C. A.
Automatic data collection system for meteorological tower (*with* **Sheen, E. M.**), 21.12–84
Wind component analyzer development (*with* **Sheen, E. M.**), 21.12–94

Ratcliffe, R. A. S., *see* **Murray, R.**, 21.5–70

Rath, Gudrun
Über Stossvorgänge in der Ionosphäre, Pt. 1 [Collision phenomena in the ionosphere, Pt. 1], 21.7–200

Rathbun, R. E.
Response of a laboratory alluvial channel to changes of hydraulic and sediment-transport variables (*with* **Guy, H. P.** and **Richardson, E. V.**), 21.10–684

Ratisbona, Leandro Riedel, *see* **Dos Santos,, Jesus Marden**, 21.12–409

Rat'kov, V. M.
Osobennosti raspredeleniia ozona nad Tikhim okeanom zimoĭ 1966/67 g. [Some features of ozone distribution over Pacific in winter 1966/67], 21.4–44
See also **Bol'shakova, L. G.**, 21.6–114

Ratkovich, D. Ia.
Zakonomernosti cheredovaniia malovodnykh i mnogovodnykh let kak osnova raschetov regulirovaniia rechnogo stoka [Laws of alternation of low and high precipitation years as the basis for river runoff control calculations], 21.2–585; 21.9–309

Ratsimor, M. Ia.
Naklonnaia i vertikal'naia vidimost' v advektivnykh tumanakh [Slant and vertical visibility in advective fogs], 21.9–414

Rattray, Maurice, Jr., *see* **Ewing, J. A.**, 21.2–747

Raudsepp, V.
Water resources development problems in mountainous British Columbia, Canada, 21.11–423

Rauner, Iu. L.
Biometricheskie pokazateli lesnoĭ rastitel'nosti v sviazi s izucheniem ee radiatsionnogo rezhima [Radiation regime and biometrical characteristics of forest vegetation], 21.1–428

Rauser, P., *see* **Grün, E.**, 21.10–636

Ravelli, F.
Rapporto preliminare sui bilanci idrometeorologici di colture in regime irriguo nel mezzogiorno d'Italia [Preliminary report on hydrometeorological balances of irrigated crops in Southern Italy] (*with others*), 21.5–565

Raven Industries, Inc., Sioux Falls, S. D.
Final Report [on] Skyhook Churchill 1968, 21.12–61

Rawer, K.
Correlation analysis of foEs using direct recordings of characteristics, 21.10–183
Synoptic ionospheric observations, including absorption, drifts and special programs, 21.8–197
See also **Jacobs, K. G.**, 21.6–230

Raynor, H. W.
Comparison of surface winds at an exposed coastal location of Vancouver Island with those immediately off shore, 21.1–502

Raynor, Severin, *see* **Petrof, R. C.**, 21.6–358

Rayrole, J.
Étude critique d'un champ 'current-free' dans l'atmosphère solaire [Critical study

of a current-free field in the solar atmosphere] (*with* **Semel, M.**), 21.2–469
Raytheon Co., Sudbury, Mass., *see* **Kolker, M.**, 21.2–22
Razin, V. A.
Nabliudeniia poliarizatsii kosmicheskogo radioizlucheniia vblizi antitsentra Galaktiki na volnakh 70, 60 i 40 cm [Observations of cosmic radio emission near galactic anti-center at wavelengths of 70, 60 and 40 cm], 21.11–558
Razvan, Ernest
Alegerea lungimii consolidarii albiei in aval de baraje [Length of river-bed consolidation downstream the dams], 21.12–707
Readings, C. J.
Heat, moisture, and momentum fluxes, in the boundary layer (*with others*), 21.10–330
Reagan, J. B., *see* **Imhof, W. L.**, 21.8–275; 21.11–294
Reagan, John A.
Comments on bistratic lidar, 21.9–29
Reames, D. V.
Charge composition of solar cosmic rays and solar abundances (*with* **Fichtel, C. E.**), 21.12–438
See also **Bertsch, D. L.**, 21.7–396
Reasoner, David L.
Relationship between the flux magnitude and pitchangle distribution for post-substorm auroral electrons, 21.11–521
Reay, N. K.
Radial velocity and intensity measurements of the night sky H emission line (*with* **Ring, J.**), 21.1–469
Zodiacal dust particles: some comments on recent evidence concerning their motion, 21.10–642
Reber, E. E.
Attenuation of the 5-mm wavelength band in a variable atmosphere (*with others*), 21.12–321
1.4-mm and 3.4-mm observations of the lunar eclipse on October 18, 1967 (*with* **Stacey, J. M.**), 21.9–489
Oxygen absorption in the Earth's atmosphere (*with* **Mitchell, R. L.** and **Carter, C. J.**), 21.9–119
Reddy, B. M.
Response of the 1000-kilometer ionosphere to magnetic storms (*with others*), 21.11–206
Reddy, C. A.
Ducting of internal gravity waves in a temperature- and wind-stratified atmosphere, 21.7–229, –241
Rocket observations of electron densities in the night-time auroral E-region at Fort Churchill, Canada (*with others*), 21.10–184
See also **Kato, S.**, 21.5–349
Redhead, P. A.
Multiple ionization in carbon monoxide by successive electron impacts, 21.8–609
Redmond, Richard G., *see* **Thayer, Orla E.**, 21.9–676
Ree, William O.
Effect of upstream flood control measures on a river (*with* **Hartman, M. A.**), 21.6–781
Reed, J. W.
Accuracy and representativeness of Jimsphere wind soundings, 21.1–530
Climatology of airblast propagations from Nevada test site nuclear airbursts, 21.11–333
Reed, Richard J.
Comparison of observed and theoretical diurnal tidal motions between 30 and 60 kilometers (*with* **Oard, M. J.** and **Sieminski, M.**), 21.4–242
See also **Lally, V. E.**, 21.4–15
Reed, Robert R., *see* **Court, A.**, 21.4–224
Rees, A. R.
Solar radiation on the south coast of England, 21.1–440
Rees, D.
Vertical winds in the lower ionosphere, 21.7–201
Rees, David E.
Line formation in a magnetic field, 21.11–663
Rees, M. H.
Auroral electrons, 21.9–449
Secondary electrons in aurora (*with* **Stewart, A. I.**, and **Walker, J. C. G.**), 21.8–657
Reeser, Warner K.
Haze distributions in the troposphere, 21.2–346
Reeves, E. M., *see* **Parkinson, W. H.**, 21.10–668
Refaei, S. M., *see* **Hazzaa, I. B.**, 21.1–787
Referativnyĭ Zhurnal: Geofizika
10 [and] 11, Oktiabr' -Noiabr' 1969 [Abstract Journal: Geophysics, No. 10–11, Oct.–Nov. 1969], 21.9–68R
Regener, Victor H.
Studies of atmospheric ozones (*with* **Aldaz, L.**), 21.12–220

Turbulent transport near the ground as determined from measurements of the ozone flux and the ozone gradient (*with* **Aldaz, L.**), 21.7–487

Regula, H.

Utilization of cyclostrophic wind in weather analysis and prognosis, 21.12–142

Rehman, M. A., *see* **Abbas, B. M.**, 21.11–95R

Reich, Brian M., *see* **White, Elizabeth L.**, 21.10–420

Reichert, Achim

Azimutabweichungen bei Satellitenpeilungen [Azimuth deviations in satellite bearings], 21.3–161

Reichle, Henry George, Jr.

Effect of several infrared transparent broadening gases on the absorption of infrared radiation in the 15 μm band of carbon dioxide, 21.2–123

Reid, G. C.

Riometer observations of the Antarctic ionosphere (*with others*), 21.5–353

Reid, Robert O.

Theoretical studies in ocean dynamics, 21.2–731

Reidat, Rudolf

Auswertung klimatologischer Daten für die Technik [Evaluation of climatological data in technology], 21.7–666

Über den täglichen Gang der Lufttemperatur bis in 200 m Höhe und sein Einfluss auf die Verbretungen von Rauchgasen nach Registrierung der Lufttemperatur an der Unterelbe bei Stade [Daily variations of atmospheric temperature up to a height of 200 m and its effect on stack gas diffusion according to atmospheric temperature recordings on the lower Elbe near Stade], 21.2–197

Reifel, Michael D.

Theoretical model of outflow (*with* **Goldman, J. L.**), 21.3–480

Reiff, Glenn A.

Radio propagation experiments with interplanetary spacecraft, 21.11–559

Reĭfman, R. L.

Oblachnost' i summarnaia radiatsiia vostochnogo poberezh'ia kaspiia [Cloud cones and total radiation of the eastern Caspian coast], 21.7–322

Vliiania kolebaniĭ urovnia Kaspiĭskogo moria na velichinu ispareniia s poverkhnosti ego zerkala [The influence of oscillations in the level of the Caspian Sea on the quantity of evaporation from its surface], 21.4–633

Reilly, Alfred E.

Flare occurrence tomorrow as a function of area and flariness of sunspot today (*with* **Enger, I.** and **Pavlowitz, A.**), 21.10–660

Rein, František

Meteorologische Bedingungen der Luftverunreiningung an den Südhängen des Erzgebirges [Meteorological conditions of air pollution along the southern slopes of the Erzgebirge], 21.6–183

Reinhardt, M. V., *see* **Mayer, U.**, 21.9–237

Reininger, E.

Project d'un réflecteur-ballon indilatable [Project for a nondilatable reflector-balloon], 21.6–62

Reĭnuik, V. I., *see* **Afinogenov, L. P.**, 21.8–25

Reiser, Heinz

On short-range forecasting with a baroclinic unfiltered model, 21.5–172

Reĭsig, I. S., *see* **Tsendrovskaia, V. A.**, 21.3–53

Reitan, Clayton H.

Weather and climate of desert environments (*with* **Green, C. R.**), 21.2–286

Reiter, E.

Tropospheric circulation and jet streams, 21.8–225

Reiter, Elmar R.

Atmospheric transport processes, Pt. 1, Energy transfers and transformation, 21.9–201

Eddy processes in momentum transport and kinetic energy distribution (*with* **Glasser, M. E.**), 21.3–435

Gedanken zur Entstehung und zur Dynamik der Strahlströme [Origin and dynamics of jet streams], 21.1–534

Interaction between subtropical and polar-front jet stream (*with* **Whitney, L. F.**), 21.5–523

See also **Essenwanger, O.**, 21.4–192; **Wooldridge, Gene**, 21.7–266

Reiter, R.

Die alpinen Observatoriumseinrichtungen der Physikalisch–Bioklimatischen Forschungsstelle Garmisch–Partenkirchen [Equipment of the alpine observatory of the Physico–Bioclimatological Research Institute at Garmisch–Partenkirchen], 21.1–126

Beitrag zu einer atmosphärisch-elektrischen Phänomenologie der Wolken und

Niederschläge mit Hilfe luftelektrisch-aerologischer Registrierungen zwischen 740 und 1780 m NN [Toward a classification of atmospheric–electrical phenomena in clouds and precipitation: results contributed by soundings between 740 and 1780 m a.s.l.], 21.1–186

Charge separation in ice needles containing traces of NO_{-3} ions (*with* **Carnuth, W.**), 21.8–619

Contribution to the atmospheric–electric phenomenology of nonthunderstorm clouds and precipitations, 21.9–440

Effects of vertical mixing, precipitation clouds, air-mass characteristics and atmospheric ultraviolet radiation on the abundance and size distribution of Aitken nuclei, as evidenced by several years of recordings at 700 and 1800 m a.s.l., 21.12–519

Gesamt-Betaaktivität der Luft nach dem 8. Kernwaffenversuch in China [Total beta-activity of the atmosphere after the 8th nuclear weapon experiment in China], 21.11–219

Jahresgang und Hoehenabhaengigkeit der Ultraviolettstrahlung im Hochgebirge [Annual march and dependence of ultraviolet radiation on altitude in high mountains], 21.7–323

On radioactive equilibrium in atmospheric aerosols at 700 and 1800 m a.s.l., as influenced by particle size and vertical mixing activity, 21.3–400

On the causal relation between nitrogen–oxygen compounds in the troposphere and atmospheric electricity, 21.11–508

Spontane Bildung negativer Raumladungen in einem maritimpolaren Luftkörper mit hoher Aerosolkonzentration [Spontaneous formation of negative space charges in a maritime polar air mass with high aerosol concentration], 21.10–492

Uber den Zustrom von frischen kernspalt produkten aus China Anfang Januar 1969 [Influx of fresh atomic fission products from mainland China in early January 1969] (*with* **Sladkovic, R.**), 21.12–350

Vorzüge des Nordalpenklimas im Herbst, dargestellt an Erfahrungen im Raum Garmisch–Partenkirchen [Advantages of the autumn climate of the Northern Alps, as demonstrated by observations in the Garmisch–Partenkirchen area] (*with* **Sladkovic, R.**), 21.7–685

Washout-Untersuchungen an Fallour- Partikeln in der unteren Troposphäre swischen 700 and 3000 m NN [Washout investigations on fallout particles in the lower troposphere between 700 and 3000 m a.s.l.] (*with* **Carnuth, W.**), 21.8–430

Reizvikh, V. N., *see* **Glazyrin, G. E.**, 21.9–34R

Rejmánek, Marcel, *see* **Jeník, Jan**, 21.7–321

Remillard, W. J.

[Comments on] **A. A. Few** et al.: A dominant 200-Hertz peak in the acoustic spectrum of thunder [and Reply by] **Few**, 21.8–666

Remizov, A. P., *see* **Khokhlov, M. Z.**, 21.4–152

Remson, Irwin, *see* **Hornberger, George M.**, 21.12–684, –556

Renard, K. G., *see* **Osborn, H. B.**, 21.4–118

Renard, Robert J.

Application of the Navy's numerical hurricane and typhoon forecast scheme to 1967 Atlantic tropical-storm data, 21.1–225

Navy's numerical hurricane and typhoon forecast scheme (*with* **Levings, W. H., III**), 21.3–242

Recent improvement in the Navy's numerical statistical scheme for forecasting the motion of hurricanes and typhoons (*with others*), 21.11–112

Renick, J. H.

Cloud photogrammetry (*with* **Douglas, R. H.**), 21.10–28

Renoux, A.

Radioactivité atmosphérique artificielle: sa répartition granulométrique [Artificial atmospheric radioactivity: its granulometric distribution] (*with* **Charfi, F.**), 21.1–343

Repetto, F., *see* **Mattana, N.**, 21.2–31; 21.7–170

Repinskaia, R. P.

Razlozhenie polia davleniia v dvoĭnye riady po estestvennym sostavliaiushchim gorizontal'nykh koordinat i vremeni [Expansion of the pressure field in double series according to natural components of horizontal coordinates and time], 21.3–576

Repnev, A. I., *see* **Ivanovskiĭ, A. I.**, 21.6–200; 21.7–160

Research Trends [Buffalo, N. Y.]

Waves can put damper on evaporation, 21.6–553

Research Triangle Inst., Research Triangle Park, N. C., *see* **Vukovich, F. M.**, 21.5–493

Reshetov, G. D.
  O prodolzhitel'nosti razvitiia i sushchestvovaniia ochagov groz i livneĭ [The duration of the development and formation of hail and rain centers], 21.7–626
  Opredelenie groz i livneĭ po radiolokatoru [Distinguishing thunderstorms and cloudbursts by radar], 21.10–32

Reshetova, O. V.
  O teploperedache i isparenii nad okeanom [Heat transfer and evaporation over the ocean], 21.9–260

Reteium, K. F., *see* **Vartazarov, S. Ia.**, 21.7–640

Rettie, R. S.
  Instrumentation of Canadian sounding rockets, 21.3–144

Reuter, Heinz
  Ausbreitungsbedingungen von Luftverunreinigungen in Abhangigkeit von meteorologischen Parametern [Diffusion conditions of air pollutants in relation to meteorological parameters], 21.12–254
  See also **Pichler, H.**, 21.6–327

Revah, Isaac
  Étude des vents de petite échelle observés au moyen des traînées météoriques [Study of small scale winds observed by means of meteor trails], 21.7–507

Revel, Jean
  Dosage de l'iode minéral total dans l'eau de mer par la méthode automatique à l'autoanalyseur Technicon [Titration of total mineral iodine in sea water by the Technicon autoanalyzer method], 21.2–720

Rex, Daniel Ferrell (ed.)
  Climate of the free atmosphere, 21.9–404

Rey, L.
  Influence de la température de l'air sur le tassement de la neige [Influence of air temperature on the settling of snow], 21.10–403

Reynolds, Ralph D.
  Dichotomy of mountain lee wave theories and field test measurements, 21.6–531

Reynolds, S. G., *see* **Hills, R. C.**, 21.10–432

Reznikov, G. P.
  Absoliutnyĭ gigrometr [An absolute hygrometer], 21.9–70
  See also **Fateev, N. P.**, 21.8–59

Rhea, J. Owen
  Airborne seeding techniques applied to winter orographic clouds (*with* **Davis, L. G.**), 21.11–148
  Review of results of the Park Range winter orographic cloud seeding experiment (*with* **Davis, L. G.**), 21.11–149
  See also **Parungo, Farn P.**, 21.11–147, –372

Rhoades, J. D.
  Macroscopic swelling and hydraulic conductivity properties of four vermiculitic soils (*with* **Ingvalson, R. D.**), 21.11–442

Rhode Island. Univ., Kingston. Inst. of Ocean Tech., *see* **Beckers, C.**, 21.2–686

Riabchikov, A. M., *see* **Kapitsa, A. P.**, 21.9–150R

Riabova, G. V., *see* **Berliand, M. E.**, 21.9–10R

Riazanova, L. A., *see* **Bugaeva, I. V.**, 21.2–88; 21.3–544

Ribes, E., *see* **Michard, R.**, 21.2–148

Rican, Gavril, *see* **Rusu, Florin**, 21.7–694

Riccucci, A., *see* **Bassanini, P.**, 21.3–583

Rice, R. W.
  Weather and pigeon racing in Malta, 21.11–82R

Rich, Peter H.
  Simple sensitive underwater photometer (*with* **Wetzel, R. G.** and **Kellogg, W. K.**), 21.9–675

Rich, T. A.
  Proposed size distribution function for natural aerosols (*with* **Mohnen, V. A.**), 21.12–520

Richards, Francis A., *see* **Cline, J. D.**, 21.5–790; **Knull, J. R.**, 21.1–733

Richards, J. E., *see* **Gibson, J. A. B.**, 21.4–79

Richards, Kenneth G.
  "Crosby weather," 21.9–38

Richards, M. E., *see* **Newell, R. E.**, 21.1–384

Richards, Marshall M.
  Elements of river forecasting (revised) (*with* **Strahl, J. A.**), 21.9–503

Richards, R. N., *see* **Cavecche, E. H.**, 21.11–692

Richards, T. L.
  Aerial surveys of Great Lakes water temperatures, April, 1966 to March, 1968 (*with* **Irbe, J. G.** and **Massey, D. G.**), 21.6–470

Richardson, Clarence W., *see* **Baird, Ralph W.**, 21.10–679

- **Richardson, E. V.,** *see* **Rathbun, R. E.,** 21.10–684
- **Richardson, F. Frank,** *see* **Berg, O. E.,** 21.4–433; 21.5–691
- **Richardson, William S.**
  - Lake Erie storm surge forecasting technique (*with* **Pore, N. A.**), 21.5–772
  - *See also* **Pore, N. A.,** 21.4–756
- **Richmond, A. D.**
  - Relation of the westward drift of the geomagnetic field to the rotation of the Earth's core, 21.1–681
- **Richter, Bernd Lothar**
  - Verlauf von Temperatur und Feuchte an einer Reihe von Heiteren Tagen des Sommers 1968 in der Innenstadt und in den Aussenbezirken West-Berlins [Course of temperature and humidity as recorded on a series of clear days of the summer of 1968 in the inner city and the suburbs of West Berlin], 21.11–483
- **Richter, Dieter**
  - Beitrag zur Bestimmung der Verdunstung von freien Wasserflachen dargestellt am Beispiel des Stechlinsees [Contribution to calculation of evaporation from open water surfaces, illustrated by Lake Stechlin], 21.10–364
- **Richter, Juergen H.**
  - High resolution tropospheric radar sounding, 21.10–85
- **Richter, V.,** *see* **Lednicky, V.,** 21.1–654
- **Rickard, D. S.**
  - Estimation and occurrence of agricultural drought (*with* **Fitzgerald, P. D.**), 21.5–655
- **Ricour, Jean**
  - Survey of the water resources of France, 21.9–630
- **Rider, G. C.**
  - Fading due to sea surface reflection in tropospheric propagation, 21.9–143
- **Rider, Laurence J.**
  - Comparison of simultaneous wind profiles derived from smooth and roughened spheres (*with* **Armendariz, M.**), 21.1–522
  - Vertical wind component estimates up to 1.2 km above ground (*with* **Armendariz, M.**), 21.4–244; 21.6–520
  - *See also* **Armendariz, M.**), 21.1–481
- **Rider, N. E.,** *see* **Harding, J.,** 21.9–72
- **Riddle, A. C.**
  - Quiet and slowly varying components of 9.1 cm radio emission during the solar minimum, 21.3–719
- **Ridgway, N. M.**
  - New Zealand region sea water temperatures at the ocean floor, 21.6–848
- **Riediger, Gunther**
  - Condensation nuclei counter with an expansion program, 21.12–113
- **Riedler, W.**
  - Auroral rocket research in Scandinavia, 21.10–521
- **Riehl, Herbert**
  - On the role of the tropics in the general circulation of the atmosphere, 21.5–403
  - Some aspects of cumulonimbus convection in relation to tropical weather disturbances, 21.3–636
  - *See also* **Pearce, R. P.,** 21.3–468; **Rasmussen, J. L.,** 21.6–328
- **Riehl, Nicholaus** (ed.), *see* **International Symposium on Physics of Ice, Munich, Germany, 1968,** 21.7–820
- **Rieker, Tasso**
  - Der Einfluss der Wolkenarten auf die Globalstrahlung [Influence of cloud types on global radiation], 21.5–455
- **Riekert, Horst**
  - Field distortion of air electric potential gradient radiosondes and the determination of form factors (*with others*), 21.12–119
- **Riel, Gordon K.**
  - Addition of automatic temperature and pressure sensors to underwater gamma spectrometer, 21.6–836
- **Rietman, J. H.,** *see* **Expédition Antarctique Belgo–Neerlandaise, 1964,** 21.2–115
- **Rigaud, A.,** *see* **Pontikis, C.,** 21.7–23
- **Rigaud, Pierre**
  - Étude de l'absorption stratosphérique dans le proche ultraviolet à l'aide de satellites passifs [Study of atmospheric absorption in the near UV by means of passive satellites], 21.4–145
  - Étude de la répartition verticale de la densité optique de l'atmosphère dans le proche ultraviolet à l'aide de satellites passifs [Study of the vertical distribution curves of the optical density of the atmosphere in the near UV range using passive satellites], 21.6–674
- **Rigby, Malcolm**
  - World-wide, meso-documentation system for collection, storage, retrieval, and dissemination of water literature, 21.8–773

Riggs, H. C.
Hydrologic data for reservoir design, 21.2–612

Riissanen, Jorma
On the measurement of RVR at Helsinki Airport (*with* **Lumme, T.**), 21.9–77
See also **Vuorela, L. A.**, 21.4–167; 21.6–452

Rijkoort, P. J.
A meteorological 80-m tower near Rotterdam, 21.12–85
Wind information for landing and take-off and siting of instruments (*with* **Wieringa, J.**), 21.12–466

Rijtema, P. E.
De lysimeters in Nederland, III [Lysimeters in the Netherlands, Pt. 3] (*with* **Ryhiner, A. H.**), 21.5–566

Riley, J. Paul
Analog computer simulation of water resource system [*with* **Chadwick, D. G.**), 21.11–674
Snowmelt simulation (*with others*), 21.5–634
See also **Murray, C. N.**, 21.4–681, –682; 21.12–750

Riley, James J.
Physiological responses of plants to salinity: plant–water relations, 21.1–657

Riley, L. A., *see* **Hall, J. S.**, 21.7–758

Rinard, S. K., *see* **Renard, R. J.**, 21.11–112

Rinehart, Gayle S.
Fog drop size distributions, 21.3–304

Rinehart, Virgil W.
Automatic environmental data buoys, 21.12–59

Ring, J., *see* **Reay, N. K.**, 21.1–469

Ringer, Lynn D., *see* **Blifford, I. H., Jr.**, 21.1–566

Rinkel, Murice O.
Some features of relationships between the Atlantic equatorial undercurrent and its associated salinity core, 21.4–720
See also **Östlund, H. G.**, 21.2–719

Risbeth, Henry
Introduction to ionospheric physics (*with* **Garriott, O. K.**), 21.8–198
On the phase of the diurnal bulge in the thermosphere, 21.9–148

Rispoli, Fortunato, *see* **Gazzola, A.**, 21.5–479

Ritchie, W. G.
Night minimum temperatures at or near various surfaces, 21.7–439

Ritzhaupt, H., *see* **Schemainda, R.**, 21.3–773

Rivera-Cordero, Antonio
Nuclear industry and air pollution, 21.12–337

Rivin, M. M., *see* **Gal'tsev, A. P.**, 21.10–15R

Roach, F. E.
Night airglow observations during the IQSY International Years of the Quiet Sun, 1964–1965 (*with* **Smith, L. L.** and **McKennan, J. R.**), 21.9–218
The nightglow and the F-region ionosphere, 21.7–360
Zodiacal light at the north ecliptic pole (*with* **Wolstencroft, R. D.**), 21.10–643

Roach, Franklin
[Biographical sketch of] **Sydney Chapman**, 21.9–152R

Roach, W. T.
Some aircraft reports of high-level turbulence, 21.1–486

Robb, J. D., *see* **Hill, E. L.**, 21.8–626

Robbins, M. F., *see* **Lanzerotti, L. J.**, 21.12–624

Robbins, Robert C., *see* **Robinson, E.**, 21.5–280; 21.8–146; 21.12–209

Robbins, Wallace E.
Use of carbon dioxide in bubble gages to prevent precipitation of calcium carbonate (*with* **Hughes, L. S.**), 21.10–688

Robert, Alain, *see* **Misme, P.**, 21.11–33

Robert, André
Integration of a spectral model of the atmosphere by the implicit method, 21.3–341
On partial difference equations in mathematical physics (*with* **Shuman, F. G.** and **Gerrity, J. P., Jr.**), 21.5–365

Roberts, Charles F.
On the problem of developing weather forecasting equations by statistical methods, 21.5–173
Preliminary results of an empirical study of some spectral characteristics of skill in present weather and circulation forecasts, 21.9–105
Report on Weather Bureau forecast performance 1967–1968 and comparison with previous years (*with* **Porter, J. M.** and **Cobb, G. F.**), 21.4–26

Roberts, Charles L., Jr.
ESSA's Antarctic meteorological program, 21.5–76

Roberts, Charles S.
Cyclotron- and bounce-resonance scattering of electrons trapped in the Earth's magnetic field, 21.7–382

- **Roberts, F. M.**, *see* **Nutman, F. J.**, 21.10–465
- **Roberts, J. J.**
  - Urban atmospheric dispersion model (*with* **Croke, E. J.** and **Kennedy, A. S.**), 21.9–196
- **Roberts, James A.**
  - Coastal mesoclimatology of the Point Conception to Morro Bay region of California, 21.11–462
- **Roberts, Nash C., Jr.**
  - Extreme Hurricane Camille, Aug. 14–22, 1969, 21.8–230
- **Roberts, P.**
  - Laboratory study of the ice nucleating properties of some mineral particulates (*with* **Hallett, J.**), 21.1–563
- **Roberts, Walter Orr**
  - Impact of budget cuts on the atmospheric sciences in universities (*with* **Wolff, E. L.**), 21.3–22
- **Robertson, C. E.**
  - Solubility of aluminum in the presence of hydroxide, fluoride, and sulfate (*with* **Hem, J. D.**), 21.3–741
  - Continuous ice nuclei measurements made during pulsed cloud seeding, 21.5–208
  - *See also* **Burrows, D. A.**, 21.5–596
- **Robertson, George W.**, *see* **Desjardins, R. L.**, 21.4–336
- **Robin, G. de Q.**
  - Initiation of glacier surges, 21.11–749
  - Propagation of glacier surges (*with* **Barnes, P.**), 21.11–750
- **Robinove, Charles J.**
  - Status of remote sensing in hydrology, 21.2–517
- **Robinson, Elmer**
  - Gaseous sulfur pollutants from urban and natural sources (*with* **Robbins, R. C.**), 21.12–209
  - Sources, abundance, and fate of gaseous atmospheric pollutants (*with* **Robbins, R. C.**), 21.5–280; 21.8–146
  - *See also* **Ludwig, F. L.**, 21.11–376
- **Robinson, Frank E.**
  - Plant density and yield of sugar beets in an arid environment (*with* **Worker, G. F., Jr.**), 21.8–684
- **Robinson, G. B., Jr.**
  - Selected hydrologic data, San Pitch River drainage Basin, Utah, 21.9–227R
- **Robinson, G. D.**
  - Air–land interaction, fog, atmospheric opacity, 21.3–23
- **Robinson, R. M.**
  - The effects of a vertical barrier on internal waves, 21.12–810
- **Robitaille, F. E.**, *see* **Madden, R. A.**, 21.8–216
- **Roble, R. G.**, *see* **Hays, P. B.**, 21.3–561
- **Roche, M.**
  - Modèle mathématique pour une crue de fonte de neige [Mathematical model of a flood from snowmelt] (*with* **Slivitzky, M.**), 21.8–468
  - *See also* **Brunet-Moret, Y.**, 21.7–595
- **Rochford, D. J.**
  - Continuity of water masses along the western boundary of the Tasman and Coral Seas, 21.2–754
  - Origin and circulation of water types of the 25.00 sigma-t surface of the southwest Pacific, 21.2–732
  - Seasonal interchange of high and low salinity surface waters off southwest Australia, 21.2–768
  - Seasonal variations in the Indian Ocean along 110°E, Pt. 1, Hydrological structure of the upper 500 M, 21.1–738
- **Rocznik, Karl**
  - Gesamtradioktivität und Wetter [Total radioactivity and the weather], 21.6–254
- **Rodda, John C.**
  - Assessment of precipitation, 21.1–191
  - Flood hydrograph, 21.1–773
  - On more realistic rainfall measurements and their significance for agriculture, 21.12–101
- **Roddier, F.**, *see* **Gonczi, G.**, 21.6–731
- **Roddy, A. F.**, *see* **Evans, G. R.**, 21.12–512
- **Roden, Gunnar I.**
  - Aspects of the mid-Pacific transition zone, 21.10–812
  - Winter circulation in the Gulf of Alaska, 21.6–302
- **Rodewald, Martin**
  - Das Islandtief auf Abwegen [Shifting of the Icelandic low], 21.11–261
  - Ist das Barometer ein 'Wetterglas'? [Is the barometer a "weather glass"?], 21.2–27
  - Rasche Ausbildung eines Orkanwirbels im westlichen Nordatlantik [Rapid development of a severe cyclonic storm in the western North Atlantic], 21.11–265
  - Die Temperatur des Küstenwassers in Puerto Chicama, Peru, 1964 bis 1968 [Temperature of coastal waters in Puerto Chicama, Peru, 1964–1968], 21.2–213

Rodgers, C. D.
Some extensions and applications of the new random model for molecular band transmission, 21.1–451

Rodhe, Henning
On the residence time of antropogenic sulfur in the atmosphere, 21.12–255

Rodier, J.
Contribution à la méthodologie de l'évaluation des débits de crue maximaux en cas d'insuffisance de données [Contribution to the methods of evaluating maximum flood discharge in the case of insufficient data], 21.7–607

Rodier, J. A.
Mesure des débits de crue de faible fréquence dans les pays d'outre-mer [Low-frequency flood discharge measurement in overseas countries], 21.7–778
Organization of surveys and hydrological research in developing countries, 21.6–745
See also **Francou, J.**, 21.8–786

Rodionov, S. F.
Absoliutnaia fotometriia iskusstvennykh sputnikov Zemli v ul'trafioletovoĭ oblasti spektra [Absolute photometry of artificial satellites in the ultraviolet region of the spectrum] (*with* **Shukurov, A. Kh.** and **Kuritsyn, O. I.**) [and English transl.], 21.2–25

Rodionova, V. T.
Ob opredelenii aeronomicheskikh parametrov F-oblasti ionosfery [The definition of aeronomical parameters of the ionosphere F-region] (*with others*), 21.11–207

Rodkina, T. E., *see* **Gidalevich, E. Ia.**, 21.2–415

Rodriguez, A.
Study of floods on the rivers of Cuba, 21.10–718

Rodriguez, Paul, *see* **Gurnett, Donald A.**, 21.11–543

Rodriguez-Iturbe, Ignacio
Applications of the theory of runs to hydrology, 21.10–753
Estimation of statistical parameters for annual river flows, 21.7–807
Modern statistical study of monthly levels of the Orinoco River, 21.2–591
Some applications of cross-spectral analyses in hydrology: rainfall and runoff (*with* **Nordin, C. F.**), 21.9–313

Roederer, Juan G.
Effect of shell splitting on radial diffusion: in the magnetosphere (*with* **Schulz, M.**), 21.8–293
[Report of] **Working Group 5** [of the IUCST], Conjugate Point Experiments (comp.), 21.6–668

Röed, Arve
Vinterbygging [Winter construction] (*with* **Sandmael, T.**), 21.8–691

Röling, Heike
Modulation des Luftdrucks durch Gewitter [Changes in the atmospheric pressure due to thunderstorms], 21.6–343

Roemer, M.
Structure of the thermosphere and its variations, 21.9–149

Rönsch, Hans
Tagesgänge im Abfluss und deren meteorologische Ursachen [Diurnal variations in discharge and their meteorological causes], 21.3–674

Rösch, J., *see* **Leroy, J. L.**, 21.1–710

Roese, David W.
Satellite navigational aids for transportation of the 1970's, 21.2–396

Röthlisberger, H.
Das Problem der Tragfähigkeit der Eisdecke anlässlich der Zürcher Seegfrörni 1963 [Problem of the load capacity of the ice coating during ice bound conditions in Zurich in 1963], 21.3–747

Rofe, Bryan
Australian sounding rocket experiments, complementing satellite firings (*with* **Twiss, P. M.**), 21.11–67
See also **Lockey, G. W. A.**, 21.4–54

Rogava, O. G., *see* **Dorman, L. I.**, 21.9–20R

Rogers, John F.
Infrared spectral irradiance measurements in a space environment simulator, 21.7–333

Rogers, Peter
A systems analysis of the lower Ganges–Brahmaputra basin, 21.9–608

Rogers, R. R., *see* **Boston, R. C.**, 21.5–56

Rogerson, John B., Jr.
On the abundance of iron in the solar photosphere, 21.6–717

Rogojan, Iulia
Unele metode de calcul statistic utilizate in studiile agrometeorologice pentru culturile de porumb şi pomi fructiferi [Some methods of statistical computation used in the agrometeorological studies of maize and fruit trees] (*with* **Socor, E.**), 21.10–467

See also **Berbecel, O.**, 21.9–383; **Socor, Elena**, 21.9–397

Rogotskiĭ, V. V.
Rezul'taty nabliudeniĭ na agrovodnobalansovom poligone VNIGL [Results of observations of the VNIGL agricultural water balance base], 21.6–653

Rogovin, V. I., *see* **Gel'mgol'ts, N. F.**, 21.12–538

Rohan, P. K.
Meteorological requirements for reports from SST aircraft, 21.12–63

Rohde, Hans
Tidebewegung bei geschlossener Eisdecke [Closed ice cover and tidal movements], 21.4–625

Rohde, Karl Heinz, *see* **Nehring, D.**, 21.12–747

Rohlfs, A. J.
Shipping and hurricane Camille, 21.7–289

Roĭtshteĭn, M. M.
K voprosu o deformativnosti sooruzheniĭ pri vetre [Deformability of buildings by wind] (*with* **Savitskiĭ, G. A.**), 21.6–508

Rojecki, Ananiasz
W pięćdziesiątą rocznicę powstania Polskiej Pánstwowej Służby Hudrologiczno-Meteorologicznej [The fiftieth anniversary of the Polish State Service of Hydrology and Meteorology], 21.7–5

Rokotian, V. E.
Invariantno-gruppovoe issledovanie uravneniĭ atmosfernoĭ konvektsii [The invariant-group investigation of the atmospheric convection equation], 21.5–534

Roland, G., *see* **Delbouille, L.**, 21.10–663

Roller, Maria
Phänologie und Witterung am Alpenostrand 1959 bis 1968 [Phenology and climatology along the slopes of the eastern Alps during the period 1959 to 1968], 21.6–59
Witterung und Phänologie am Alpenostrand im Jahre 1968 [Weather and phenology on the eastern edge of the Alps in 1968], 21.3–116
Witterung und Phänologie am Alpenostrand im Jahre 1969 [Weather conditions and phenology in 1969 on the eastern slopes of the Alps], 21.9–194R

Romanenko, V. A.
K raschetu izmeneniia vlazhnosti pochvy v rechnom basseĭne v zimniĭ period [Calculation of soil moisture changes in a river basin during winter], 21.8–496

Romanov, E. V.
O vozmozhnosti sochetaniia analogovykh i tsifrovykh ustoĭstv pri postroenii apparatury dlia izmereniia turbulentnykh perenosov [The possibility of combining analog and digital instruments for building an assembly for turbulent transfer measurements], 21.9–61

Romanov, Iu. A.
O poriadkakh sil inertsii i baricheskogo gradienta v prizemnom sloe priekvatorial'nykh shirot [Orders of inertia forces and pressure gradient in the surface layer of latitudes near the equator] (*with* **Romanova, N. A.**), 21.3–602

Romanov, V. V.
Nekotorye priemy analiza rezhima gruntovykh vod [Some methods of groundwater regime analysis], 21.6–770

Romanova, E. N.
Nekotorye osobennosti mikroklimata subarkticheskoĭ tundry [Some characteristics of the microclimate of the subarctic tundra], 21.6–650
See also **Golubova, T. A.**, 21.7–680

Romanova, N. A., *see* **Romanov, Iu. A.**, 21.3–602

Romer, J.
Variations de la température de la mer au voisinage de la surface [Variations of sea temperature near the surface], 21.6–850; 21.11–108R

Romov, A. I.
Chislennoe issledovanie dinamiki atmosfernykh frontov [Numerical studies of the dynamics of atmospheric fronts], 21.3–455
O dvumernoĭ zadache rascheta vertikal'nykh dvizheniĭ na frontakh v kvazigeostroficheskom priblizhenii [The two-dimensional problem of calculating the vertical motion in fronts using the quasigeostrophic approximation], 21.4–124

Rompel, John, *see* **Farnes, Phillip E.**, 21.10–401

Romulo, Carlos P.
Man's control of water, 21.11–675

Ronchi, L., *see* **Carrara, N.**, 21.11–600

Rondy, Donald R.
Great Lakes ice atlas, 21.2–642
Great Lakes ice cover winter, 1962–1963 and 1963–1964, 21.4–627

Ronov, A. B.
Probable changes in the composition of sea water during the course of geological time, 21.2–717

Rooney, J.
Economic and social implications of snow and ice, 21.1–623
Roosen, J.
Some features of the solar microwave emission and their connection with geomagnetic activity, Pt. 1, 21.3–720; Pt. 2, 21.4–452; Pt. 3, 21.4–451
Roosen, R. G.
Are the libration clouds real? (*with* **Wolff, C. L.**), 21.7–744
Rooth, Claes, *see* **Östlund, H. G.,** 21.2–719
Roots, E. F., *see* **Dort, W., Jr.,** 21.6–817
Roper, R. G., *see* **Woodrum, A.,** 21.3–631
Ropes, Leverett H.
Fortran IV program for synthesis and plotting of water-quality data (*with* **Morgan, C. O.** and **McNellis, J. M.**), 21.3–742
Roşca, Virgil
Contribuţii la studiul influenţei factorului termic in desfăşurarea fazelor de vegetaţie la cartof [Contributions to the study of the thermic factor influence upon the development of the potato vegetation stages], 21.6–432
Rose, C. W., *see* **Byrne, G. F.,** 21.6–73
Rosell, Dominador Z.
Research and development of water resources of the Philippines, 21.9–565
Rosén, Carl Gustaf, *see* **Ackefors, H.,** 21.5–786
Rosenberg, H. B.
Hydraulic factors affecting thermal power plant location in Great Lake (sic) region, 21.11–756
Rosenberg, Norman J.
Advective contribution of energy utilized in evapotranspiration by alfalfa in the east central Great Plains, 21.6–547
Agricultural meteorology in Israel, 21.2–3
Evaporation and condensation on bare soil under irrigation in the east central Great Plains, 21.3–644
Seasonal patterns in evapotranspiration by irrigated alfalfa in the central Great Plains, 21.7–536
See also **Brown, K. W.,** 21.5–220; 21.9–30
Rosenberg, Ronald L.
Heliographic latitude dependence of the dominant polarity of the interplanetary magnetic field (*with* **Coleman, P. J., Jr.**), 21.4–431
Rosenberg, V. I., *see* **Krasiuk, N. P.,** 21.3–660
Rosenburg, Sam B., *see* **Goldman, J. L.,** 21.3–477
Rosendhal, Jeffrey D.
Effect of electron scattering on curves of growth, 21.4–424
Rosenfeld, Sam
Science experiments with air, 21.8–7
Rosenthal, E.
Temperature gradients in the subsurface of the Dead Sea area, Israel (*with* **Eckstein, Y.**), 21.1–766
Rosenthal, Stanley L.
Experiments with a numerical model of tropical cyclone development; some effects of radial resolution, 21.11–271
Preliminary results from numerical experiments with a primitive equation model designed to simulate the development of tropical cyclones, 21.3–470
Rosini, Ezio
L'inquinamento atmosferico nelle pinete del littorale adriatico [Atmospheric pollution in pine groves of the Adriatic coast] (*with* **Nucciotti, F.**), 21.11–164
See also **Cagnetti, P.,** 21.2–84; **De Maio, A.,** 21.8–239; **Franciosi, M. T.,** 21.1–477; **Gazzola, A.,** 21.5–479
Rosinski, J.
Role of aerosol particles in the formation of raindrops and hailstones in severe thunderstorms (*with* **Kerrigan, T. C.**), 21.1–567
Rosinskiĭ, M. Ia., *see* **Osherovich, A. L.,** 21.9–150
Rosova, E. S.
Periody s dozhdiami v raione eksperimental'nogo meteorologicheskogo poligona [Periods with rains in the region of the Experimental Meteorological Polygon], 21.8–394
Ross, I. J., *see* **Baird, C. D.,** 21.9–69
Ross, Iu. K.
Matematicheskaia model' radiatsionnogo rezhima rastitel'nogo pokrova [A mathematical model of radiation regime of the plant cover] (*with* **Nil'son, T. A.**), 21.1–429
Oslablenie priamoĭ i summarnoĭ radiatsii vnutri posevov sel'skokhoziaĭstvennykh kul'tur i opisyvaishchie ee poluempiricheskoe formuly [Extinction of direct global solar radiation within crops and semiempirical formulas for describing this phenomenon] (*with* **Tooming, Kh. G.**), 21.1–460
Sovremennoe sostoianie izlucheniia radi-

atsonnogo rezhima rastitel'nogo pokrova [Present state of investigation of the radiation regime of the plant cover], 21.1–430
See also **Budagovskiĭ, A. I.**, 21.1–420
Ross, Martin
Radar-computed rainfall compared with observations from a dense network of rain gages, 21.3–90
Ross, R., *see* **Whipple, E. C., Jr.**, 21.1–161
Rossano, A. T., Jr.
Dynamics of air pollution and its control, 21.1–305
Rossby, H. Thomas
Vertical profile of currents near Plantagenet Bank, 21.3–794
Rossby, T.
On monitoring depth variations of the main thermocline acoustically, 21.8–843
Rossi, E., *see* **Colacino, M.**, 21.7–848; 21.10–316
Rossi, Giorgio
Contribution to the study of evaporation from water surfaces, 21.8–352
See also **De Biasi, G. B.**, 21.8–459
Rossi, N., *see* **Nucciotti, F.**, 21.5–615
Rossinskiĭ, K. I.
Heat transfer coefficient in water bodies with limited flowage during summer heating (*with* **Kravtsova, M. P.**), 21.10–43R
Koeffitsient teploperenosa v maloprotochnykh vodoemakh v period letnego nagreva [Coefficient of thermal transport in low-current bodies of water during the summer warming period] (*with* **Kravtsova, M. P.**), 21.6–794
Rost, D. F., *see* **Post, R. E.**, 21.9–142
Rostokin, E. N.
Temperaturnyĭ rezhim pochvy na razlichnykh glubinakh pod ogolennoĭ poverkhnost'iu i estestvennym pokrovom [Temperature regime of soils at various depths under a bare surface and under natural cover], 21.2–206
Rostomov, G. D.
Maksimal'nyĭ stok rek Kolkhidskoĭ nizmennosti [Maximum river flow in the Colchis lowland], 21.6–778
Method of estimating storm runoff from small drainage basins, 21.9–600
Roth, Rainer
Der langwellige Teil des Turbulenzspektrums in der freien Atmosphäre [The long-wave portion of the turbulence spectrum in the free atmosphere], 21.5
504
Messungen kurzfristiger Schwankunge von Lufttemperatur ind Windgesch windigkeit [Measurement of short-ter fluctuations of air temperature and wi speed], 21.6–478
Ein primitives Modell zu Heisenbergs sta tistischer Theorie der Turbulenz [primitive model for Heisenberg's statist cal theory of turbulence], 21.9–197
See also **Kraus, H.**, 21.6–571
Róth, Renáta, *see* **Koppány, G.**, 21.10–11 21.12–172
Rothe, Dietmar E., *see* **McCaa, D. J.**, 21. 42
Rothfus, R. R., *see* **Li, K.**, 21.6–176
Rothlisberger, H.
Evidence for an ancient glacier surge i the Swiss Alps, 21.10–782
Rothovius, A. E., *see* **Lautzenheiser,** **E.**, 21.10–392
Rothrock, H. J.
Aid in forecasting significant lake snow 21.7–94
Rothrock, Thomas P., *see* **Johnson, S. R** 21.5–470
Rothwell, Paul L., *see* **Katz, L.**, 21.2–351
Rotschi, H.
Remarques sur le courant de Cromwe [Comments on the Cromwell Current (*with* **Wauthy, B.**), 21.10–820
Roulet, Ronald R.
Radiation regime of Arctic drifting statio ARLIS-II, January 1964–May 1965 21.12–410
Roulleau, Maud
Influence of an electric field on the freez ing of water, 21.8–355
Rouse, Wayne R.
Time and space variation in the radia energy fluxes over sloping forested te rain and their influence on seasonal he and water balances at a middle latitu site (*with* **Wilson, R. G.**), 21.6–651
Rousseau, D.
Comparaison de méthodes numérique itératives de résolution de l'équation d Poisson [Comparison of iterative nu merical methods of solving the Poisso equation], 21.7–230
Étude numérique de l'action du relief su l'atmosphère, 1 [Numerical study of th action of topographic relief on the atmo sphere, Pt. 1], 21.6–134

Étude numérique de l'action du relief sur l'atmosphère, 2, Modèle tridimensionnel [Numerical study of the effect of relief on the atmosphere, Pt. 2, Tridimensional model] (*with* **Pham, H. L.**), 21.10–147
Expérience préliminaire a l'élaboration d'un modèle numérique de prévision régionale [Preliminary experiment in the plotting of a numerical model of regional forecasting], 21.6–135
Méthodes objectives de prévision du temps, Pte. 2 (*with* **Nieres, J. R.**), 21.3–46

Roussel, J. C., *see* **Roussel, M. R.**, 21.8–569

Roussel, M. R.
Altération de la visibilitè par la vapeur d'eau [Alteration of visibility by water vapor] (*with* **Roussel, J. C.**), 21.8–569

Rowe, John N.
Changes in electron density and collision frequency at University Park, Pennsylvania during the stratospheric warming of 1967/68 (*with others*), 21.3–355

Rowlandson, L. G.
Derivation of closed functions to compensate range and angle errors in an exponential atmosphere (*with* **Moldt, R. G.**), 21.4–78

Roy, A. E.
Luni–solar perturbations of an Earth satellite, 21.3–162

Roy, A. K.
"Warm" and "cold" cloud rain in Calcutta during southwest monsoon season (*with* **Mukherjee, B. K.**), 21.7–590

Rozenberg, G. V.
Atmosfernoe davlenie na Lune po dannym sumerechnogo fotografirovaniia Surveyor-VII [Atmospheric pressure on the Moon from twilight photography data from Surveyor-7], 21.12–599
O gorizontal'noĭ dal'nosti nabliudaemosti v poliarizovannom svete [Horizontal visibility in polarized light] [and English transl.], 21.3–686
O iakosti oblakov [Cloud brightness], 21.12–580
Vysotnyi khod iarkosti dnevnogo neba v mezosfere (*with* **Pyldmaa, V. K.**), 21.7–331

Rozenberg, V. I.
Radiolokatsionnye kharakteristiki gradiny razlichnykh dielektricheskikh svoĭstv i temperatury [The radar characteristics of hailstones with different dielectric properties and temperatures], 21.11–50
See also **Abshaev, M. T.**, 21.5–55; 21.11–38; **Krasiuk, N. P.**, 21.11–46

Rozental', I., *see* **Prilutskiĭ, O.**, 21.10–596

Rozhdestvenskiĭ, A. V.
Conversion of annual streamflow to a long period, 21.9–69R

Rozhdestvenskiĭ, M. K., *see* **Avduevskiĭ, V. S.**, 21.2–439; 21.9–496

Rozhkov, V. A.
Dlina realizatsii i tochka usecheniia korrelogrammy kak parametry empiricheskogo specktral'nogo analiza zapisei volneniia [Length and cutoff point of a correlogram as parameters for empirical spectral analysis of wave recordings], 21.12–777

Rozhnov, G. I.
Sravnitel'naia gigienishceskaia kharakteristika i normirovanie ostatochnykh kolichestv gerbitsidov pentanata i geksanata v vode [Comparative hygienic assessment and standardization of residual amounts of new herbicides (pentanate and hexanate) in the water] [and English transl.], 21.4–415

Rozinskiĭ, M. Ia., *see* **Osherovich, A. L.**, 21.6–116

Rozova, E. S.
Povtoriaemost' mesiachnykh, sezonnykh i godovykh summ osadkov na Eksperimental'nom meteorologicheskom poligone [Repetition of monthly, seasonal, and yearly precipitation totals on the Experimental Meteorological Polygon], 21.8–404

Rual, P.
Courants équatoriaux profonds [Deep equatorial currents], 21.4–695

Rubin, E. H.
Ice accretion studies under simulated shipboard icing conditions, 21.6–572

Rubinshteĭn, E. S.
Problems and methods of climate mapping, 21.9–70R
See also **Rusin, N. P.**, 21.9–72R; **Zykova, G. G.**, 21.6–446

Rubinshteĭn, M. V.
Ispol'zovanie prognozov v veroiatnostnoĭ forme pri meteorologicheskom obespechenii aviatsii [The use of a prognosis in probability form in meteorological flight control], 21.8–116
Ob"ektivnyĭ metod prognoza vysoty nizhneĭ granitsy oblakov na 1–2 chasa [Objective method for forecasting the altitude of

the lower boundaries of clouds 1–2 hr in advance], 21.10–110

Rubio, Roberto
- Faraday rotation system for measuring electron densities, 21.2–78

Rubtsov, I. G.
- Temperatura vozdukha i druzhnost' snegotaianiia [Air temperature and the rate and continuity of snow melting], 21.5–635

Rubtsov, K. G.
- K raschetu (prognozu) pritoka talykh vod v ruslovuiu set' otkrytykh basseĭnov po snegozapasam i temperature vozdukha (po materialam Pridesnianskoĭ stokovoĭ stantsiĭ) [Calculation (prediction) of the influx of melt into the waterway network of open basins based upon snow deposition and air temperature (according to data from the Pridesnian runoff station], 21.8–464

Rucker, Samuel J., IV, *see* **McGreevy, L. J.,** 21.2–556

Rudakov, V. E.
- O nekotorykh metodicheskikh priemakh vyiavleniia vliianiia meteorologicheskikh faktorov na prirost derev'ev [Some methods for detecting influences of meteorological factors upon tree growth], 21.9–392

Ruddiman, W. F.
- Foraminiferal evidence of a modern warming of the North Atlantic Ocean (*with others*), 21.12–776

Rudina, M. P., *see* **Drobzhev, V. I.,** 21.5–343

Rudloff, Willy
- Aerologische Monatskarten der Tropen für das Internationale Geophysikalische Jahr 1957/58, Teil 3: Winde für das 200- und 300-mb-Niveau [Monthly aerological charts of the tropics for the IGY 1957–1958, Pt. 3, 200- and 300-mb level] (*with* **Höflich, Otto**), 21.9–71R
- Netzpunktwerte und Monatskarten des Luftdrucks der Tropenzone für das Internationale Geophysikalische Jahr (IGJ) [Net point values and monthly charts of air pressures over tropical zones for the International Geophysical Year (IGY)], 21.5–498

Rudnev, Ku. I.
- O vozmoshnosti primeneniia etalona Fabri–Pero dlia issledovanii spektrov pogloshcheniia atmosfery [The possibility of atmosphere absorption spectra investigation with Fabry–Perot calibrator] (*with* **Sataeva, L. A.**), 21.8–573

Rudneva, Anna Vladimirovna, *see* **Mikhel', V. M.,** 21.7–636

Rudometov, M. V.
- Ob uchete druzhnosti razvitiia polovod'ia v raschetakh i prognozakh vesennego maksimuma (na primere r. Desny) [Considering the rapidity of high water development in calculations and forecasts of the spring peak (the example of the Desna River], 21.12–666

Rudnev, A. S.
- O vychislenii dliny smochennogo perimetra [Calculation of length of a wet perimeter], 21.2–570

Ruest, E., *see* **Lotmar, Ruth,** 21.7–48

Rüster, R.
- Influence of the atmospheric temperature on the electron density distribution in the midnight F-region, 21.9–179
- Theoretical treatment of the dynamical behavior of the F-region during geomagnetic bay disturbances, 21.10–185

Rützler, Klaus, *see* **Forstner, H.,** 21.2–696

Ruggieri, Michelangelo
- Lago artificiale di Campotosto [Campotosto artificial lake], 21.4–602

Ruggles, Kenneth Warren
- Observations of the wind field in the first ten meters of the atmosphere above the Ocean, 21.1–503
- Vertical mean wind profile over the Ocean for light to moderate winds, 21.11–345

Ruhm, H.
- Gas-pressure and pressure–stratification in the sunspot, 21.12–622

Ruhnke, Lothar H.
- Electrification processes in warm rain clouds, 21.2–368

Ruiz Huidobro, Oscar
- Hydrologic study of the provision of water for watering cattle in the Province of Buenos Aires, 21.9–631

Rumania. Institutul Meteorologic, Bucharest
- Anuarul Aerologic, 1966 [Aerological yearbook, 1966], 21.9–215R
- Anuarul Meteorologic, 1965 [Meteorological yearbook, 1965], 21.9–214R
- Anuarul Agrometeorologic, 1966 [Agrometeorological yearbook, 1966], 21.6–51
- Culegere de Lucrări, 1966 [Collection of Papers, 1966], 21.6–4
- Culegere de Lucrări, 1967 [Collection of Papers, 1967], 21.11–99R

Runcanu, T.
Condiţiile meteorologice pe tronsonul Tg. Jiu–Caransbeş al rutei aeriene Bucureşti–Timoşoara [Weather state along the Tg. Jiu–Caransebes trunk-line on the Bucureşti–Timoşoara Air-Way] (*with others*), 21.5–154

Runich, A. V.
K otsenke vysotnogo rasprostraneniia lavinnoĭ deiatel'nosti v Zapadnom Tian'-Shane [Evaluation of altitudinal distribution of avalanche activity in Western Tyan Shan] (*with* **Emil'ianov, Iu. N.**), 21.11–409

Rupp, S. M.
Temporal variations of the deep water at Ocean Station P, 21.2–702

Ruppersberg, Gerhard Helfrich, *see* **Fimpel, H. P.,** 21.1–94

Rusche, Benard C., *see* **Cooper, R. E.,** 21.10–212

Rush, C. M.
Equatorial anomaly during a period of declining solar activity (*with others*), 21.5–354

Rusin, N. P.
Investigations of the meteorological regime of the Arctic and Antarctica (*with* **Rubinshteĭn, E. S.**), 21.9–72R
Meteorological network and methods of observation (*with* **Bespalov, D. P.**), 21.9–73R

Rusin, V.
Analysis of a method of wide-slit photometry of coronal lines (*with* **Rybansky, M.**), 21.10–675

Ruskin, Robert E.
Measurement of atmospheric dewpoint from aircraft, 21.1–189

Ruskol, E. L.
Khimicheskiĭ sostav i vnutrenne stroenie planety Iupiter [Chemical composition and internal structure of the planet Jupiter], 21.12–609

Russ, R. G., *see* **Schecter, R. M.,** 21.6–88

Russell, Christopher T.
OGO-3 observations of ELF noise in the magnetosphere, Pt. 2, The nature of the equatorial noise (*with* **Holzer, R. E.** and **Smith, E. J.**), 21.9–459
On the structure of the inner magnetosphere (*with* **Thorne, R. M.**), 21.12–430
See also **Smith, E. J.,** 21.2–386

Russell, D. A., *see* **Mullaney, G. J.,** 21.7–113

Russell, J. A., *see* **Barbon, R.,** 21.11–617

Russell, Jack G., *see* **Kumai, M.,** 21.2–253

Russell, S.
Development of fixed-frequency topside-sounder satellite (*with* **Zimmer, F. C.**), 21.10–186

Russell, W. E.
Air pollution and chemical industry, 21.12–256

Rust, David M.
Chromospheric explosions and satellite sunspots, 21.2–473

Rusu, Florin
Contribuţii la aprecierea raportului dintre plantă şi unele elemente ale mediului ei de viaţă exprimate sub forma indicelui *Iz* [Contributions to the evaluation of the relations between the plant and certain elements of its environment expressed by the *Iz* index] (*with* **Cherchez, N.** and **Rican, G.**), 21.7–694

Rutherford, A. A.
Water quality survey of Saskatchewan groundwater, 21.9–641

Ruthroff, C. L.
Rain attenuation and radio path design, 21.6–598

Ruttenberg, Stanley
National activities relative to GARP observing systems, 21.7–6
Systems possibilities for an early GARP experiment, 21.3–24

Rutulis, M.
Groundwater investigation in the Melita area, Manitoba, Canada, 21.9–632

Růžičková-Topolová, B., *see* **Křivský, L.,** 21.11–633

Ruzin, M. I.
O vliianiĭ mikroturbulentnogo obmena na ustoĭchivost' pogranichnogo sloia atmosfery [Effect of microturbulent exchange on the stability of a boundary atmospheric layer], 21.3–425
Sravnenie dvukh variantov obobshcheniia formuly Karmana dlia pogranichnogo sloia atmosfery [Comparison of two versions of generalizing Karman's formula for the boundary atmospheric layer], 21.7–258

Rvachev, V. P.
Rasseianie poliarizovannogo sveta elementami rastitel'nogo pokrova [Scattering of polarized light by elements of plant cover] (*with* **Guminetskiĭ, S. G.** and **Polianskiĭ, V. K.**), 21.2–344

Ryan, B. F.
Temperature dependence of the velocity of steps growing on the basal plane of ice (*with* **Macklin, W. C.**), 21.12–542
See also **Macklin, W. C.**, 21.6–558

Ryan, Bill C.
Vertical perspective of Santa Ana winds in a canyon, 21.10–340

Ryan, J. A.
Dust devil wind velocities (*with* **Carroll, J. J.**), 21.5–423

Ryan, T. V., *see* **Laird, N. P.**, 21.11–771

Ryan Aeronautical Co., San Diego, Calif. Electronic and Space Systems, *see* **Kennedy, J. M.**, 21.1–151

Rybak, B. Kh., *see* **Veselov, E. P.**, 21.12–481

Rybakov, E. T.
Tochnost' opredeleniia vetra v atmosfere metodom radiolokatsii [Accuracy of wind determinations by a radar method in the atmosphere] (*with* **Akhmetov, M. S.**), 21.12–41

Rybanský, M., *see* **Rusin, V.**, 21.10–675

Rybchenko, A. A.
O neobkhodimosti ucheta sutochnogo khoda meteoelementov pri otsenke vliianiia vodoemov na formirovanie mikroklimata pribrezhnoĭ zony [The necessity of considering the daily course of meteorological elements in evaluating the influence of reservoirs on the formation of microclimate in the coastal zone], 21.2–306

Rybin, Iu. N.
Obrabotka rezul'tatov aktinometricheskogo radiozondirovaniia na ETSVM [Computer processing of the actinometric radiosonde data] (*with* **Mishchenko, V. S.** and **Chigarev, A. M.**), 21.5–43

Rybkina, M. P.
K voprosu raĭonirovaniia territorii Iugo-Vostochnogo Kazakhstana po usloviiam formirovaniia maksimal'nogo stoka [The problem of regional classification of territories in southeastern Kazakhstan according to conditions of maximum runoff formation] (*with* **Semenov, V. A.** and **Shchegoleva, N. N.**), 21.4–528

Rychkova, M. A., *see* **Mokievskiĭ, K. A.**, 21.1–459

Rychtera, Miroslav, *see* **Němcová, B.**, 21.4–337

Rycroft, M. J., *see* **Thomas, J. O.**, 21.12–317

Rydell, C. Peter
Air pollution and urban form (*with* **Schwarz, G.**), 21.2–54

Rydell, H. S., *see* **Kaufman, M. I.**, 21.10–728

Ryhiner, A. H.
Soil moisture measurement by the gamma transmission method (*with* **Pankow, J.**), 21.6–94
See also **Rijtema, P. E.**, 21.5–566

Rylov, S. P.
Isparenie snezhnogo pokrova v usloviiakh polupustynnoĭ zony Kazakhstana [Evaporation of the snow cover under conditions of the semiarid zone of Kazakhstan], 21.4–260

Rymaszewska, Maria
Długotrwała α-aktywność wód leczniczych świeradowa-zdroju [A note on the long-lived alpha-radioactivity of mineral waters in Świeradów] (*with* **Zejmo, I.**), 21.4–556
Stosunek koncentracji jonów chlorkowych do stężenia radonu w wodach mineralnych jako wskaznik radiohydrochemiczny [Note on the dependence between the concentration of chloride ions and the radioactivity of emanation dissolved in mineral waters], 21.3–405

Ryss, I. K.
Vozmoshnyĭ metod rascheta pogloshcheniia radiovoln v nizhneĭ ionsfere [A possible method of calculation of radio-wave absorption in the low ionosphere] (*with* **Chernysheva, S. P.**), 21.11–208

Rzheplinskii, G. V.
Novyĭ metod analiza i rascheta elementov vetrovykh voln [New method for the analysis and calculation of wind waves] (*with others*), 21.9–740

Rzhiga, O. N.
Analiz spektra iarkostnoi temperatury i struktura nizhnei atmosfery Venery [Analysis of brightness temperature spectrum and the structure of the lower Venus atmosphere], 21.12–604

Rzhonsnitskiĭ, V. B.
K issledovaniiu prilivov sutochnogo perioda [Investigations of tides with a 24-hr period], 21.12–799

Rzóska, Julian
Hydrology and ecology, 21.2–326

S

Sabatini, Romeo R. (ed.), *see* **U. S. Goddard Space Flight Center, Greenbelt, Md.**, 21.10–49R, –50R

Sabella, Luis J., *see* **De Fina, Armando L.**, 21.10–118R

Sabin, Robert C.
  Visibility improvement graphs, 21.5–192

Sabinin, K. D.
  K opredeleniiu parametrov vnutrennikh voln po dannym buksiruemoĭ girliandy termistorov [Determination of internal wave parameters using data of towed garlands of termistors] [and English transl.], 21.4–773

Saboe, Swane, *see* **Bates, Roy E.**, 21.8–812

Sachdev, R. N.
  Atmospheric diffusion of Argon-41 from the CIRUS stack at Trombay (*with* **Nadgir, S. B.**), 21.4–207
  Microbarographic oscillations associated with geomagnetic activity, 21.7–462

Sachse, Kurt
  Ein Sonderfall von Schiffsvereisung von östlich Neufundland bis von Nantucket im Februar 1968 [Exceptional case of ship icing from East Newfoundland to off Nantucket in February 1968], 21.2–252
  Kältehoch und Tiefdrucksumpf [Cold high and low pressure sink], 21.11–259

Sackett, W. M.
  Chemical oceanography, 21.2–710
  See also **Fredericks, Alan D.**, 21.12–751

Sadeh, W. Z.
  Flow field within and about a forest canopy, Task I, Study of airflow in simulated temperate and tropical forest canopies (*with* **Cermak, J. E.** and **Kawatani, T.**), 21.10–318

Sadkov, V. P.
  Nekotorye kvazigeostroficheskie i kvazisolenoidal'nye modeli prognoza: uchet orografii, treniia i istochnikov tepla v prognosticheskikh skhemakh [Some quasi-geostrophic and quasi-solenoidal prediction models: the consideration of orography friction and heat sources in forecasting models], 21.8–97

Sadler, James C.
  Forecasting minimum cloudiness over the Red River Delta during the summer monsoon (*with others*), 21.10–111

Sadokov, V. P.
  Lagrangian wind computation and tropical circulation, 21.7–465
  Ob integrirovanii Uravneniĭ Eĭlera [Integration of Eulerian equations], 21.2–85

Sadourny, Robert
  Finite-difference approximation of the primitive equations for a hexagonal grid on a plane (*with* **Morel, P.**), 21.3–243
  Numerical integration of the primitive equations on a spherical grid with hexagonal cells, 21.3–244

Sadowski, Alexander
  Size of tornado warning area when issued on basis of radar hook echo, 21.8–107

Saenger, R. Alfred
  Measurement of the statistical properties of the ocean surface with instrumented surface floats, Pt. 1, 21.2–697
  Measurement of the statistical properties of the ocean surface with instrumented surface floats (U), Pt. 2, Engineering and data processing, 21.7–838

Safwat, H. H., *see* **Souka, A. F.**, 21.1–431

Sagalyn, Rita C.
  Charged particle measurements by means of electrostatic probes (*with* **Smiddy, M.**), 21.6–123

Sagan, Carl
  Clouds and atmosphere of Venus (*with* **Pollack, J. P.**), 21.1–685
  Gray and nongray planetary atmospheres, 21.6–699
  On the structure of the Venus atmosphere (*with* **Pollack, J. B.**), 21.9–508
  See also **Morrison, David**, 21.9–515

Sager, E. F., *see* **Sager, R. M.**, 21.3–175

Sager, Günther
  Die Amplitudenkurven bei Gezeiten und surf beats [Tidal amplitude curves and surf beats], 21.11–782

Sager, Raymond M.
  Sager Weathercaster: a scientific instrument for accurate prediction of the weather (*with* **Sager, E. F.**), 21.3–175

Sagi, Takeshi
  Concentration of calcium and the calcium chlorosity ratio in the western North Pacific Ocean, 21.9–702

Saha, A. T.
  Mesoscale study of heavy rainfall of Delhi, 21.10–393

Saha, Kshudiram
  On the instantaneous distribution of vertical velocity in the monsoon field and structure of the monsoon circulation, 21.3–612

Saifudinova, T. I., *see* **Mishin, V. M.**, 21.8–285

St. Amand, Pierre
  Nucleation by silver iodide and similar materials, 21.6–562
Saint-Guily, B.
  Effect de la thermocline sur la diffusion d'une substance à partir d'une source, 21.4–710
St. Louis Univ. Dept. of Geophysics, *see* **Pallmann, A. J.,** 21.4–230
St. Thomas, Univ., Houston. Inst. for Storm Research, *see* **Goldman, J. L.,** 21.3–255
Saito, Naosuke
  On the large-scale structure of a disturbance in the easterlies over the Caribbean Sea, 21.7–278
Saitova, N. M., *see* **Dikiĭ, L. A.,** 21.6–519
Saiz, Francisco, *see* **Hajek, Ernst R.,** 21.9–380
Sajnani, P. P.
  Divergence, vorticity and vertical motion in the fields of winter and monsoon circulations over India, 21.7–497
  Use of observed winds for computation of divergence and vorticity over India, 21.3–436
Sakai, Akira
  Wintering of plants in high mountains and polar regions, Pt. 1, Freezing resistance of alpine plants in Hokkaido (*with* **Otsuka, K.** and **Yoshida, S.**), 21.8–323
  See also **Pogosian, Karen Surenovich,** 21.11–316; **Yoshida, Shizuo,** 21.7–446, –447
Sakai, Takasuke
  Solar modulation of cosmic electrons and nuclei, 21.9–481
Sakai, Tetsuo, *see* **Iwagaki, Yuichi,** 21.12–784, –785, –787
Sakali, L. I., *see* **Daĭgot, L. S.,** 21.2–204
Sakhanov, V. V.
  Results of radiation observations during the partial eclipse of the Sun on May 20, 1966 in Ryazan' [Transl. from Russian], 21.5–441
  Rezul'taty slicheniia saratovoskogo bolometra V'iushkova–Skliarova so stokgol'mskim pirgeliometrom Ongstrema No. 569 [Results of comparison of the Vyushkov–Sklyarov bolometric pyrheliometer with Stockholm Ångström pyrheliometer No. 569] (*with* **Sakhanova, V. A.**), 21.1–174
  See also **Sakhanov, V. V.,** 21.1–174
Sakhokiia, D. M., *see* **Makhan'kov, V. G.,** 21.5–259
Sakovskaia, N. P., *see* **Nezhikhovskii, R. E.,** 21.12–667
Sakunov, G. G.
  Registratsiia mgnovennoĭ skorosti vetra ot datchika M-63 na elektronnom potentsiometre [Registration of the instantaneous wind velocity from the M-63 sensor on an electronic potentiometer], 21.11–94
Sakurai, Kunitomo
  Characteristics of the X-ray and H2 emissions associated with solar proton flares, 21.7–384
Salah, Joseph E.
  Tropical air density below 80 km from hypersonic sphere measurements, 21.3–315
Salamkhin, K. M., *see* **Toropova, T. P.,** 21.6–675
Salanave, Leon E.
  Recent advances in the observation of lightning spectra, 21.8–635
Salaruddin, M.
  Dew point hygrometer with thermoelectric cooling, 21.6–85
Salati, E.
  Estudo da determinação de radiação solar em Piracicaba, S. Paulo [Study of the determination of solar radiation in Piracicaba, S. Paulo], 21.11–285
  Instalaçaõ de um lisímetro de flutuação [Installation of a fluctuating lysimeter], 21.11–100
Salcedo, J. E., *see* **Badillo, V. L.,** 21.11–551
Saldarriaga, J.
  Application of run–lengths to hydrologic series (*with* **Yevjevich, V.**), 21.11–383
Saleem, Mohammad
  An inexpensive method for determining the direction of natural flow of groundwater, 21.10–738
Salhotra, S. K., *see* **Bhaskara Rao, A.,** 21.3–198
Saliamon, G. S.
  Analiz okisi propilena v vozdukhe [Analysis of propylene oxide in the air] [and English transl.], 21.5–281
Salinger, S. N., *see* **Miller, G. K., II,** 21.12–31
Salisbury, Australia. Weapons Research Establishment
  Ionospheric data for October 1967 from Woomera, South Australia, 21.2–14
Sal'man, E. M.
  Apparatura i metod operativnogo polucheniia radiolokatsionnoĭ meteorologicheskoĭ informatsii ob oblakakh, obla-

chnykh sistemakh i opasnykh iavleniiakh [Apparatus and method for obtaining meteorological radar information on clouds, cloud systems, and dangerous phenomenon] (*with others*), 21.1–121
  Kompleksnoe ispol'zovanie radiolokatsionnykh i sputnikovykh nabliudeniĭ pri analize mezo- i makromasshtabnykh oblachnykh sistem [Complex use of radar and satellite observations while analyzing meso- and macroscale cloud systems] (*with others*), 21.3–651
  Radiolokatsionnye kriterii razdeleniia grozovoĭ i livnevoĭ deiatel'nosti [Radar criteria for dividing thunderstorm and hail activity] (*with* **Gashina, S. B.** and **Divinskaia, B. Sh.**), 21.3–93
  Some results of radar investigations of the vertical structure of showers and thunderstorms (*with* **Zhupakhin, K. S.**), 21.1–122
  See also **Gashina, S. B.**, 21.4–116
Salomonson, Vincent Victor
  Anisotropy in reflected solar radiation, 21.6–367
  See also **Martin, Frank L.**, 21.11–350
Salter, P. J.
  Crop responses to water at different stages of growth (*with* **Goode, J. E.**), 21.9–359
Salter, P. R. S.
  Further note on the heavy rainfall of July 10, 1968, 21.1–616
Saltzman, Barry, *see* **Sankar-Rao, M.**, 21.5–404
Salverda, Z.
  Ecological consequences of the management of catchment areas and influence of forest on river basins, 21.2–528
Samardzhiev, Dimitŭr, *see* **Trísková, L.**, 21.1–677
Sambikin, M. M.
  Vliianie krupnochekovogo orosheniia na mikroklimat kukuruznogo polia [Effect of large-plot flooding on the microclimate of a corn field] (*with* **Kirilin, A. I.**), 21.4–334
Samir, U.
  Dependence of charge and potential distribution around a spacecraft on ionic composition (*with* **Wrenn, G. L.**), 21.1–318
  Possible explanation of an order of magnitude discrepancy in electron-wake measurements, 21.10–67
Samoilenko, V. S.
  Okean pod vozdeistviem vetra i Solntsa: op prirode Peruanskogo techeniia [Ocean under the action of the wind and Sun: on the nature of the Peruvian cold current], 21.10–821
Samoĭlov, A. I.
  K voprosu o kriteriiakh dlia analiza frontov u poverkhnosti Zemli [Criteria for the analysis of fronts at the Earth's surface] (*with* **Sereda, T. D.**), 21.1–416
Samoilova, L. V., *see* **Dmitrieva-Arrago, L. R.**, 21.12–406
Samokhin, M. V.
  Dvizhenie zariazhennykh chastits malykh energii v modeli magnitosfery s postoiannym elektricheskim polem [Motion of low-energy charged particles in a model of the magnetosphere with a constant electric field], 21.7–383
  O dvizhenii plazmy vnutri magnitosfery vblizi osi simmetrii [Plasma movement within the magnetosphere near the axis of symmetry], 21.10–204
  O forme plazmopauzy pri nalichii dozvukovogo konvektivnogo techeniia v magnitosfere [The shape of the plasmopause in the presence of a subsonic convective current in the magnetosphere], 21.4–74
  O skhodimosti metoda posledovatel'nykh priblizhenii v probleme sverkhzvukovogo obtekaniia dipolia [Convergence of the methods of successive approximations in the problems of supersonic flow around a dipole], 21.8–212
  Struktura techeniia plazmy v okrestnosti lobovoĭ tockhi v magnitosfere Zemli [Structure of plasma flow in the vicinity of the frontal point of the Earth's magnetosphere] [and English transl.], 21.4–75
Samokhvalov, I. V., *see* **Kabanov, M. V.**, 21.2–349
Samrov, V. P.
  Raschet techenii v real'nom okeane [Calculation of currents for a real ocean], 21.11–772
Samson, C. A., *see* **McQuate, P. L.**, 21.5–307; **Skerjanec, R. E.**, 21.3–27
Samuelson, R. E.
  Thermal radiation field emitted by anisotropically scattered cloud planetary atmospheres, 21.6–384
Samukashvili, R. D.
  O godovom khode sostavliaiushchikh radiatsionnogo balansa na kurorte Nal'chik [Annual variation pattern of the radiation balance components in the health resort], 21.9–214

  - O godovom khode sostavliaiushchikh radiatsionnogo balansa na Ledovoi baze [Annual variation pattern of the radiation balance components at the "Ledovaia Baza" station], 21.9–215
  - Prikhod korotkovolnovykh potokov radiatsii na sklony v raione El'brusa [Incoming short-wave radiation on slopes in the Elbrus region], 21.9–216
- **Sanatani, S.**
  - Plasma temperatures in the magnetosphere (*with* **Hanson, W. B.**), 21.7–213
- **Sandborn, V. A.**
  - Field tests of the optical cross-beam system, 21.6–15
- **Sanders, Frederick**
  - A mesoscale cold front in New England, 21.7–310
  - NHC barotropic hurricane tracking system, 21.3–266
- **Sandford, Brian P.**
  - Graphs of the solar depression angle from 0° to 32° vs. local hour angle for latitudes 0° to 90° (*with* **Doan, L. R.**), 21.10–47R
- **Sandie, W. G.**
  - Latitude variations of fast and slow neutrons at aircraft altitudes during solar minimum (*with* **Mendell, R. B.** and **Korff, S. A.**), 21.7–344
- **Sandlin, G. D.,** *see* **Tousey, R.,** 21.2–503, –507
- **Sandmael, Tor,** *see* **Röed, Arve,** 21.8–691
- **Sando, Rodney W.**
  - Prescribed burning weather in Minnesota, 21.9–263
- **Sandström, A. E.**
  - Cosmic-ray intensity variations during 1967 (*with* **Kangedal, B.**), 21.7–420
- **Sandström, H.**
  - Effect of topography on propagation of waves in stratified fluids, 21.9–745
- **Sandy, G. H.**
  - Research in arid regions at Texas Technological College: a listing of faculty and student studies, 21.10–67R
- **Sanford, T. E.,** *see* **Clayton, W. H.,** 21.6–7; 21.7–84
- **Sangmitr, Soranee**
  - Characteristics of rainfall over Thailand, 21.8–388
- **Sangster, W. E.**
  - Forecast aid for Boulder winds, 21.9–86
- **Sanitary and Water Resources Engineering Conference, 6th, Nashville, Tenn.**
  - Proceedings, 21.12–655
- **Sankar-Rao, M.**
  - On a steady state theory of global monsoons (*with* **Saltzman, B.**), 21.5–404
  - Tests of the effect of grid resolution in a global prediction model (*with* **Umscheid, L., Jr.**), 21.3–245
- **Sanna, S.,** *see* **Mattana, N.,** 21.2–92
- **Sano, Yuji**
  - Dynamic response of the hydrometer using fine thermocouple psychrometer (*with* **Mitsuta, Y.**), 21.5–129
- **Sansom, H. W.**
  - Four year hail suppression experiment using explosive rockets, 21.5–209
  - Report on hail suppression experiments in Kenya, 21.10–130
- **Santina, R. E.,** *see* **Baker, M. B.,** 21.7–392
- **Santomauro, L.**
  - Determinazione dell'andamento medio dello spessore dello strato limite superficiale dell'atmosfera a Milano (Linate) con il metodo di Laikhtman [Determination of the mean height of the atmospheric boundary layer at Milan (Linate) by the Laĭkhtman method], 21.1–315
  - Per una relazione tra salita di effluenti gassosi da sorgente elevata e velocità media del vento in condizioni di inversione [A relationship between the gas plume rise and the average wind velocity in inversion conditions], 21.1–497
  - Primi risultati di una indagine micrometeorologica in un centro urbano in relazione all' inquinamento atmosferico [First results of a micrometeorological investigation in an urban center in relation to atmospheric pollution], 21.2–55
- **Saõ Paulo, Brazil (City). Observatório**
  - Anuario do Observatório de S. Paulo, 1969], 21.10–119R
- **Sapozhnikov, V. I.**
  - K prognozu dozhdevykh pavodkov na osnove ucheta neravnomernosti osadkov i stoka v basseĭne na primere r. Bikina u st. Zven'evoĭ [Rain flood forecasting on the basis of taking into account irregularities of precipitation and flow in the basin, based on the Bikin River near the station of Zven'evaya] (*with* **Mel'nikova, Z. D.**), 21.2–546
  - Prognoz sgonno-nagonnykh urovnei vody v ust'e r. Taza [Prognosis of wind flood levels in the mouth of the river Taza] (*with* **Masliuk, D. A.**), 21.12–156
  - Spring flood hydrograph computation on the basis of data on inflow to the water-

- shed surface and into the river system, 21.10–702

Sapozhnikova, S. A.
- Kharakteristika pogody sutok po mestnomu solnechnomu vremeni na osnove nabliudeniĭ v sinopticheskie sroki [Characteristics of diurnal weather according to local solar time on the basis of observations made at standard synoptic observation times], 21.2–301
- O kharakteristike temperatury vozdukha dnia i nochi v severnykh raĭonakh [Air temperature characteristics in northern regions during day and night], 21.11–312
- Opyt rascheta kharakteristik nochnoĭ i dnevnoĭ temperatury i otnostitel'noĭ vlazhnosti vozdukha po sinopticheskim srokam nabliudeniĭ [Calculation of characteristics of noctural and daytime temperatures and relative atmospheric humidity according to standard synoptic observation times] (*with* **Litvin, N. N.**), 21.2–181
- Sovremennyĭ etap razvitiia klimatologii v svete teorii poznaniia [The contemporary stage in the development of climatology from the viewpoint of the theory of cognition], 21.11–458
- *See also* **Mamontov, N. V.,** 21.1–473; 21.2–173

Sari, James W.
- Power spectra of the interplanetary magnetic field (*with* **Ness, N. F.**), 21.4–432

Sarkisian, A. S.
- O nedostatkakh barotropnykh modeleĭ okeanicheskoĭ tsirkuliatsii [The defects of the barotropic models of oceanic circulation] [and English transl.], 21.4–703
- On dynamics of currents in the equatorial Atlantic, 21.4–731
- Opyt rascheta urovennoĭ poverkhnosti i skorosti techeniĭ Karibskogo moria [The experience in calculations of a level surface and current speed in the Caribbean Sea] (*with* **Knysh, V. V.**), 21.4–721
- Pole plotnosti kak osnovnoi indikator statsionarnykh morskikh techenii [Density field as a basic indicator of steady-state sea currents] (*with* **Pastukhov, A. F.**), 21.10–823

Sarkisov, S. L.
- O raspredelenii chastits estestvennogo aerozolia po razmeram [The size distribution of natural aerosol particles] (*with others*), 21.11–373

Sarrica, O.
- Primi risultati di esperienze sul ghiacciamento dell'acqua [First results of experiments on the freezing of water], 21.1–571

Sartor, J. Doyne
- Charge transfer between uncharged drops in an electric field (*with* **Abbott, C. E.**), 21.2–369
- Electricity and rain, 21.4–376
- Mountain wave clouds as steady-state cloud and aerosol physics laboratories, 21.12–529
- Some details of droplet coalescence and bounce (*with* **Abbott, C. E.**), 21.6–563
- *See also* **Davis, M. H.,** 21.9–293

Sartz, Richard S.
- Soil water movement as affected by deep freezing, 21.6–633

Sarukhanian, E. I.
- Poliusnyi priliv v mirovom okeane [The polar tide in the world ocean], 21.10–836
- *See also* **Maksimov, I. V.,** 21.4–360

Saruwatari, Ryoki, *see* **Higano, Ryoji,** 21.10–110R

Sárváry, I.
- Tracer method for determining the velocity of flow in a confined karstic aquifer, 21.1–788

Sasaki, Yoshikazu
- Analysis and prediction of severe storms, 21.9–204
- Numerical variational method of analysis and prediction, 21.3–246
- Proposed inclusion of time variation terms, observational and theoretical, in numerical variational objective analysis, 21.5–174
- *See also* **Wilkins, Eugene M.,** 21.7–518; **Matsuike, Kanau,** 21.8–829

Sasinovich, L. M.
- K obosnovaniiu predel'no dopustimoi kontsentratsii DDVF v vozdukhe rabochei zony [Substantiation of the maximum permissible concentration of DDVF in the air of a working zone], 21.11–475

Sastri, C. V. S., *see* **Subrahmanyam, V. P.,** 21.9–321

Sastri, N. S.
- On the linear relationship between the Zurich sunspot numbers and the incident solar radio radiation flux at 10.7 cm, 21.11–627

Sastry, Ch. V.
- Observations on the time structure of

solar radio bursts at a wavelength of 12M, 21.11–556

Sastry, J. S.
On the prediction of the probable distribution of concentration from hypothetical radioactive sources on the continental slope off the east coast of the U. S., Pt. 1, Oceanographic analysis for determination of the fields of motion and diffusivity (*with* **Okubo, A.**), 21.9–698

Sasyō, Yoshio
Studies and developments of meteorological instruments for cloud physics and micrometeorology, Pt. 1, 21.5–131
Studies and developments of meteorological instruments for cloud physics and micrometeorology, Pt. 2, New methods of measurement for the larger cloud drops, 21.7–53
Studies and developments of meteorological instruments for cloud physics and micrometeorology, Pt. 3, New instrument for measurement of wind direction in light air, 21.7–51

Sataeva, L. A., *see* **Rudnev, Iu. I.**, 21.8–573

Sater, John E. (ed.), *see* **Arctic Institute of North America, Wash., D. C.**, 21.10–69R

Satō, Kōji
On the snowfall in the Kutchan District, Hokkaidō, Pt. 4, 21.10–93R
Regional peculiarity of the weather in the Tomakomai District, Hokkaidō, 21.10–99R

Sato, Y., *see* **Hirota, I.**, 21.6–293; 21.11–84R

Satoh, Yoshimasa
Relation between sea surface temperatures at Takonohama Beach, Miyako and those of nearby ocean currents, 21.11–774

Satterlund, Donald R.
Combined weather and vegetation modification promises synergistic streamflow response, 21.6–159
Disposition of snow caught by conifer crowns (*with* **Haupt, H. F.**), 21.11–395

Sauer, V. B.
Polar coordinate chart reader for stage–rainfall recorder, 21.12–102

Saunders, C. P. R.
Influence of cloud electrification on ice crystal aggregation, 21.7–628

Saushkin, Iu. G., *see* **Kapitsa, A. P.**, 21.9–150R

Sauvageot, H.
Études sur radars millimétriques de formations nuageuses convectives, Pte. 1 [Studies on millimetric radar detectio of convective cloud formations, Pt. 1] 21.2–13

Sauval, A. J.
Identification of SiH lines in the sola disk spectrum, 21.10–669

Sauzay, G., *see* **Ambach, W.**, 21.8–424

Savage, B. D.
Models of the atmosphere of Jupiter (*wit* **Danielson, R. E.**), 21.1–688
See also **Danielson, R. E.**, 21.2–470

Savchenkova, E. I.
Issledovanie osobennosteĭ meteorologicheskikh poleĭ nad severnym polushariem, obuslovivaiushchikh poliavleni l'da na rekakh SSSR [Study of th peculiarities of meteorological fields ove the Northern Hemisphere causing ic formation on the rivers of the U.S.S.R.] 21.4–617

Savel'ev, B. A., *see* **Kabanov, M. V.**, 21.2 349

Savenko, I. A.
Issledovanie spektrov protonov vnutrenneg radiatsionnogo poiasa na sputnike "Kosmos-137" [Study of proton spectr of the inner radiation belt on "Cosmos 137"] (*with* **Savun, O. I.** and **Shavrin P. I.**), 21.8–294
Kompleks nauchnoĭ apparatury na sputnik "Kosmos-137" dlia issledovaniia radiatsi v okolozemnom kosmicheskom prostranstve [A complex of scientific apparatur on the satellite "Cosmos-137" for th study of radiation of the near-Eart space] (*with* **Savun, O. I.** and **Shavrin P. I.**) [and English transl.], 21.3–163

Savikovskii, I. A.
Otkloneniia ot svetovozdushnogo uravneniia i ikh vliianie na izmerenie gorizontal' no prozrachnosti [Deviations from th light–air equation and their effect on th measurement of horizontal transparency], 21.8–77

Savin, St.
Geotermograf şi meteorofitograf [Geothermograph and meteorophytograph] 21.5–118

Savitskiĭ, G. A., *see* **Roĭtshteĭn, M. M.** 21.6–508

Savitskiĭ, G. B.
Kharakteristika sinopticheskikh i meteorologicheskikh usloviĭ v raĭone stantsi Bellinsgauzen za period 29 ianvaria-2 febralia 1968 g. [Description of synopti and meteorological conditions in th

Bellingshausen Station area during January 29–February 22, 1968] [and English transl.], 21.5–18

Savun, O. I., *see* **Savenko, I. A.,** 21.3–163; 21.8–294

Sawara, Tsutomu, *see* **Akamatsu, H.,** 21.3–775; 21.4–652

Sawyer, Constance
  Sunspot changes following proton flares, 21.2–474

Sawyer, J. S.
  Large-scale disturbance of the equatorial atmosphere, 21.10–245

Sawyer, Robert F.
  Reducing jet pollution before it becomes serious, 21.10–144

Sawyerr, J. Lawrence, *see* **Campbell, J. Logan,** 21.11–95R

Saxena, P. P.
  Atomic nitrogen and nitric oxide in the upper atmosphere during day time, 21.7–164
  Atomic nitrogen and nitric oxide in the upper atmosphere during night-time, 21.5–230

Saxena, V. K.
  Operation of a thermal diffusion chamber for measurements on cloud condensation nuclei (*with* **Burford, J. N.** and **Kassner, J. L., Jr.**), 21.6–110

Sayán M., Juan Luís, *see* **Schoff, Stuart L.,** 21.10–723

Sayed, Sayed Z. El, *see* **Franceschini, G. A.,** 21.4–104

Sayles, Francis H.
  Creep of frozen sands, 21.12–461

Sazonov, B. I.
  Osobennosti tsirkuliatsii v troposfere i stratosfere i chastitsy vysokikh energii [Circulation characteristics in the troposphere and the stratosphere and high-energy particles], 21.7–264
  Ustoĭchivost' atmosfernoĭ tsirkuliatsii i temperaturnye anomalii [Stability of atmospheric circulation and temperature anomalies] (*with* **Girskaia, E. I.**), 21.5–405
  See also **Polozova, L. G.,** 21.5–475

Schaefer, D.
  Atmospheric densities at a height of 275 km derived from drag data of Explorer-32 (*with* **Wulf-Mathies, C.**), 21.9–116

Schaefer, E. J.
  Composition and temperature of the neutral tropic lower thermosphere, 21.4–56

Schaefer, Vincent J.
  Inadvertent modification of the atmosphere by air pollution, 21.1–306
  Simple equipment for atmospheric research, 21.6–72
  Some effects of air pollution on our environment, 21.5–283
  Some thoughts on ice nuclei, 21.5–581
  See also **Conover, J. H.,** 21.8–364

Schaening, B., *see* **Lauter, E. A.,** 21.5–35

Schaffert, Ulrich
  Einfluss systematischer Beobachtungsfehler auf die Bestimmung radiometeorologischer Grössen, speziell N-Gradient [Effect of systematic observational errors on the determination of radio meteorological parameters, especially N-gradient], 21.1–335

Schanz, Peter
  On automatic input/output-processing in the German Meteorological Service, 21.3–25

Schaper, P. W.
  Performance of a spectrometer for measuring the Earth's radiance near 4.3 (*with* **Shaw, J. H.**), 21.11–64

Schardt, Alois W.
  Particles and fields: significant achievements, Pt. 2 (*with* **Opp, A. G.**), 21.6–414

Schatten, Kenneth H.
  Coronal structure at the solar eclipse of Sept. 22, 1968, 21.9–555
  Direction of the nearby galactic magnetic field inferred from a cosmic-ray diurnal anisotropy (*with* **Wilcox, J. M.**), 21.3–714
  See also **Wilcox, J. M.,** 21.2–413, –414

Schaub, James H., *see* **Moulton, Lyle, K.,** 21.7–444

Schchukin, G. G., *see* **Rabinovich, Iu. I.,** 21.4–181

Schecter, R. M.
  Relationship between imprint size and drop diameter for an airborne drop sampler (*with* **Russ, R. G.**), 21.6–88

Scheich, G., *see* **Unge, C.,** 21.5–261

Scheinberg, Eliyahu, *see* **Bryant, J. P.,** 21.11–757

Scheithauer, Gerhard, *see* **Foitzik, Leonhard,** 21.7–704

Schellenberger, Günter
  Form der räumlichen Strahlungsverteilung in Gewässern [Form of spatial radiation distribution in bodies of water], 21.6–381

Schemainda, R.
- Deep scattering layers and hydrographic structures of the water masses in the Gulf of Guinea (*with* **Ritzhaupt, H.**), 21.3–773

Scherhag, Richard
- Berliner Messwerte: Digitale und analoge Ergebnisse der zentralen Messwertregistrier-anlage und weiterer Instrumente für das Jahr 1969, Teil I, 1. Vierteljahr [Berlin measurement data: digital and analog results of the central data recording station and other instruments for 1969, Pt. 1, First quarter] (*with others*), 21.8–35
- Ergebnisse des synoptischen Dienstes im Jahre 1969: Tägliche Wetterkarten (Boden, 500 mb, 300 mb) und kleinere wissenschaftliche Aufsätze, Jan.–June [Results of synoptic service in 1969: daily weather maps (surface, 500 mb, 300 mb) and short scientific articles Jan.–June] (*with others*), 21.7–34
- Klimatologische Karten der Nordhemisphäre [Climatological maps of the Northern Hemisphere] (*with others*), 21.8–815
- Stratospheric warming and polar votrex breakdown, 21.7–453
- *See also* **Geb, Manfred,** 21.9–170R

Schickedanz, Paul T.
- Statistical methodology for the planning and evaluation of hail suppression experiments in Illinois (*with* **Changnon, S. A., Jr.** and **Lonnquist, C. G.**), 21.5–639
- Test for the scale parameters of two gamma distributions using the generalized likelihood ratio (*with* **Krause, G. F.**), 21.6–18
- *See also* **Huff, F. A.,** 21.5–205

Schiff, H. I., *see* **Haslett, J. C.,** 21.7–158

Schimsa, Gerhard
- Über die Verwendung von Radarinformationen für mesometeorologische Verfahren und für die Beratung der Volkswirtschaft [Use of radar network data in mesometeorological procedures and in economic advisory services], 21.11–51

Schirmer, Hans
- Langjährige Monats- und Jahresmittel der Lufttemperatur und des Niederschlags in der Bundesrepublik Deutschland für die Periode 1931–1960 [Long-term monthly and annual means of air temperature and precipitation in the Federal Republic of Germany for the period 1931–1960], 21.7–667

Schleusener, Richard A.
- New water for northern plains, 21.12–197
- *See also* **Williams, Merlin C.,** 21.12–182

Schleusener, S. A., *see* **White, I. O.,** 21.7–736

Schloemer, R. W., *see* **Whetstone, G. W.,** 21.8–781

Schmidlin, Francis J.
- Statistical comparison of winter–summer rocketsonde–radiosonde temperatures in the 20- to 34-kilometer region of the stratosphere, 21.3–557

Schmidt, Ernst
- Über die Ursache von Rissen in der Eiskappe des nordlichen Polarmeeres [Cause of cracks in the icecap of the northern Arctic Ocean], 21.9–264

Schmidt, F. H.
- On the relation between changing meteorological circumstances and the decrease in the sulfur dioxide concentration around Rotterdam (*with* **Velds, C. A.**), 21.5–284

Schmidt, Friedrich
- Austria, 21.11–95R

Schmidt, G., *see* **Bird, H. H.,** 21.5–460; **Dieminger, W.,** 21.4–62

Schmidt, Gerhard
- Darstellungsprinzipien von Klimakarten in mittleren und grossen Massstäben [Principles of cartographical presentation of climatological charts on a medium and large scale], 21.2–296

Schmidt, H. U.
- Magnetohydrodynamics of an active region, 21.3–732

Schmidt, Ibo
- Räumliche und zeitliche Wind- und Temperaturschwankungen, ermittelt aus Schwarmaufstiegen [Spatial and temporal wind and temperature fluctuations reported from mass ascent probes], 21.6–162

Schmidt, L. V., *see* **Laferty, J. D.,** 21.8–63

Schmidt, Norbert, *see* **Popescu, Nicolae,** 21.11–725

Schmidt, U.
- A new method for recording molecular hydrogen in atmospheric air (*with* **Seiler, W.**), 21.11–106

Schmidt-Kessen, W.
- Klimatische Expositionsbehandlung im Gebirge [Climatic exposure treatment in mountains], 21.8–557

- **Schmieder, Brigette**
  - Sur le temps de relaxation des perturbations en temperature dans la photosphère [Relaxation time of temperature perturbations in the photosphere], 21.9–526
- **Schminder, R.**, *see* **Sprenger, K.**, 21.7–203
- **Schmorak, S.**
  - Upcoming of fresh water–sea water interface below pumping wells, field study (*with* **Mercado, A.**), 21.10–734
- **Schneider, Arland D.**, *see* **Jones, Ordie R.**, 21.10–729
- **Schneider, Hans Jochen**
  - Minapin: Gletscher und Menschen im NW-Karakorum [Minapin: glaciers and men in the NW-Karakoram], 21.4–609
- **Schneider, T.**
  - Block-method for measuring heat flux density at the surface of soils and other solids, 21.6–465
  - Thermocouple psychrometer and its use for the measurement of water vapor pressure near the Earth's surface, 21.7–52
  - Wind and nightfrost in young forest plantations, 21.5–193
- **Schneider, W. J.**
  - Reforestation effects on winter and spring flood peaks in central New York state, 21.10–719
- **Schnelle, Fritz**
  - Regionale Unterschiede der Schwülebedingungen im Odenwald und im Rheintal [Regional differences of sultriness conditions in the Odenwald and in the Rhine Valley], 21.2–327
- **Schock, Carol A.**, *see* **Dennis, A. S.**, 21.6–619
- **Schoeberl, LaVern S.**, *see* **Olson, Tamlin C.**, 21.12–460
- **Schöbesch, O.**
  - Variaţiile condiţiilor meteorologice reflectate in leucograme la bovine [Weather unfolding as seen in horned cattle white counts] (*with* **Kiss, V.**), 21.10–468
- **Schönwiese, Christian Dietrich**
  - Spektrale Untersuchung limatologischer Daten im langperiodischen Bereich [A spectral study of climatologic dates in the long-periodic range], 21.6–645
  - Specktrale Varianzanalyse klimatologischer Reihen im langperiodischen Bereich [Spectral variance analysis of climatological cycles in the long-period term], 21.2–302
- **Schoff, Stuart L.**
  - Groundwater resources of the Lambayeque Valley, Department of Lambayeque, northern Peru (*with* **Sayan M., J. L.**), 21.10–723
  - Sodium as a clue to direction of groundwater movement, Nevada Test Site (*with* **Moore, J. E.**), 21.2–565
- **Schooley, Allen H.**
  - Evaporation in the laboratory and at sea, 21.5–567
- **Schorn, Ronald A.**
  - High-dispersion spectroscopic studies of Venus, Pt. 2, The water vapor variations, 21.9–509
  - High-dispersion spectroscopic observations of Venus, Pt. 3, The carbon dioxide band at 7820 Å (*with* **Gray, L. D.** and **Barker, E. S.**), 21.9–510
- **Schotland, Richard M.**
  - Some aspects of remote atmospheric sensing by laser radar, 21.6–45
- **Schove, D. J.**
  - The biennial oscillation, tree rings and sunspots, 21.9–268
  - Solar–terrestrial relationships, 21.3–684
- **Schram, Karin**
  - Windverhaeltnisse in der bodennahen Luftschicht an einem Hang von etwa 25 Grad neigung [Wind conditions in the atmospheric layer near the ground on a slope of about 25°], 21.5–509
  - *See also* **Deschwanden, J. S.** (ed.), 21.8–538
- **Schraml, J.**, *see* **Penzias, A. A.**, 21.4–469
- **Schramm, Peter**
  - Untersuchungen über statistische Zusammenhänge zwischen Selbstmorden und Wetter in West-Berlin während der Jahre 1956–1965 [Studies on the statistical relationships between suicides and weather in West Berlin in the years 1956–1965], 21.2–329
- **Schreiber, Hermann**
  - Beitrag zur Bestimmung der mittleren Verweildauer von natürlichen Aerosolen [Contribution to the determination of the average delay–time of natural aerosols] (*with* **Woerner, F.**), 21.5–282
- **Schroeder, Elizabeth**
  - How representative is the series of Panulirus stations of monthly mean conditions off Bermuda? (*with* **Stommel, H.**), 21.10–815
- **Schroeder, Elmer E.**, *see* **Mills, Willard B.**, 21.8–475

Schroeder, Mark J.
- Critical fire weather patterns in the conterminous United States, 21.1–478
- Inaja Fire—1956, Pine Hills Fire—1967 . . . similar, yet different (*with* **Taylor, B. B.**), 21.1–57

Schröder, Wilfried
- Katalog deutscher Beobachtungen von Leuchtenden Nachtwolken für die Jahre 1885–1965 [Catalog of German observations of noctilucent clouds for 1885–1965], 21.7–708
- Strukturänderungen der Mesosphäre und Leuchtende Nachtwolken [Structural variation of the mesosphere and noctilucent clouds], 21.8–586
- Die Tunguska-Katastrophe und die hochatmosphärischen Erhellungen am 30. Juni 1908 [Tunguska (meteorite) catastrophe and the illumination of the upper atmosphere on June 30, 1908], 21.11–485
- Uber die Leuchtenden Nachtwolken [Noctilucent clouds], 21.11–499
- Zur eindeutigen Identifizierung der Leuchtenden Nachtwolken bei Berüchsichtigung der Polarlichthäufigkeit [Exact identification of noctilucent clouds with regards to aurora], 21.2–347
- Zur Theorie der jahresperiodischen Haufigkeit der Leuchtenden Nachtwolken [Theory of seasonal frequency of occurrence of noctilucent clouds], 21.8–587

Schroeder, William H., *see* **Urone, P.**, 21.1–276

Schröter, E. H., *see* **Beckers, J. M.**, 21.1–693; 21.9–531, –532; **Wittmann, A.**, 21.9–533

Schubach, Karl
- Wasserhaushaltsuntersuchungen nach Beobachtungen an wägbaren Lysimetern [Water balance examinations based on observations made at weighing lysimeters], 21.10–355

Schubert, Gerald
- High velocities induced in a fluid by a travelling thermal source, 21.1–356
- *See also* **Schwartz, Kenneth**, 21.10–604

Schuck, Edward A.
- Oxide of nitrogen (*with* **Stephens, E. R.**), 21.12–257

Schüepp, M.
- Kalender der Wetter- und Witterungslagen von 1955 bis 1967 im zentralen Alpengebiet [Calendar of weather and weather situations, 1955–1967, in the Central Alpine Zone], 21.3–448
- Klimatologie der Schwiez, Sec. C [Climatology of Switzerland, Sec. C], 21.3–545

Schuepp, Peter H.
- Influence of molecular properties of the fluid on simulation of the total heat and mass transfer of solid precipitation particles (*with* **List, R.**), 21.3–672

Schuert, Edward A.
- Turbulent diffusion in the intermediate waters of the North Pacific Ocean, 21.5–796

Schütz, K.
- Studies of atmospheric N_2O (*with others*), 21.12–221

Schuler, C., *see* **Carpenter, R. O.**, 21.9–117

Schulte, H. F., *see* **Miller, E. K.**, 21.3–375; 21.12–305

Schultz, Floyd V., *see* **Gilmartin, T. J.**, 21.6–252

Schulz, Gerhard
- Windkanäle: Mittel technischer Strömungsforschung auch ausserhalb der Luftfahrt [Wind tunnels: means of technical flow research outside aeronautics], 21.1–526

Schulz, Michael, *see* **Lanzerotti, L. J.**, 21.10–625; **Roederer, Juan G.**, 21.8–293

Schulz, Sigurd, *see* **Nehring, Dietwart**, 21.12–747

Schulze, Peter
- Die horizontale Temperaturverteilung in Grosstädten, insobesondere die West-Berlins in winterlichen Strahlungsnächten [Horizontal temperature distribution in urban areas, particularly the winter nocturnal radiation of West Berlin], 21.3–549

Schuman, Elmer L.
- Inference of the charge distribution in thunderstorms from airborne measurements of the electric field, 21.5–678
- On the comparison of Arctic, Antarctic and oceanic atmospheric electric measurements, 21.3–692
- *See also* **Weickmann, H. K.**, 21.3–671

Schumann, Aubrey P., *see* **Lally, V. E.**, 21.4–15

Schuster, Burton G.
- [Discussion of] **T. G. Owe Berg** and **Douglas C. George**: Investigation of the kinetics of condensation [and reply by] **Berg** and **George** (*with* **Carstens, J. C.** and **Kassner, J. L., Jr.**), 21.2–249

Schutz, C., *see* **Rapp, R. R.**, 21.11–249

Schuuring, C.

Het weer vandaag en morgen [The weather today and tomorrow], 21.5–19

Schuurmans, C. J. E.

Influence of solar flares on the tropospheric circulation (statistical indications, tentative explanation and related anomalies of weather and climate in Western Europe), 21.8–565

Statistical study of pressure changes in the troposphere and lower stratosphere after strong solar flares (*with* **Oort, A. H.**), 21.6–504

Schuyler, Sonja (comp.)

User's guide for NODC's data processing systems, 21.6–827

Schwab, Glenn O., *see* **Fausey, Norman R.**, 21.10–427

Schwalb, Arthur

Vidicon data limitations (*with* **Gross, J.**), 21.4–9

Schwarcz, H. P.

Boron isotopic fractionation during clay adsorption from sea-water (*with* **Agyei, E. K.** and **McMullen, C. C.**), 21.4–687

Schwartz, G. M., *see* **Manson, P. W.**, 21.4–259

Schwartz, Kenneth

Time-dependent lunar electric and magnetic fields induced by a spatially varying interplanetary magnetic field (*with* **Schubert, G.**), 21.10–604

Schwartzlose, Richard A.

Transient circulation event near the deep ocean floor (*with* **Isaacs, J. D.**), 21.4–696

Schwarz, Francis K.

Probable maximum and TVA precipitation for Tennessee River basins up to 3000 square miles in area and durations to 72 hours (*with* **Helfert, N. F.**), 21.8–412

Schwarz, Gretchen, *see* **Rydell, C. P.**, 21.2–54

Schwarz, Guenter, *see* **Smith, D. L.**, 21.7–7

Schwarz, U.

Aeronautical meteorology, 21.10–12

Schwentek, Heinrich

Similarities in the annual behavior of the stratosphere and the D- and E-layer of the ionosphere, 21.6–203

Schwerdt, Richard W.

Great Lakes navigation season, 1969 (*with* **Hight, W. D.**), 21.9–244R

See also **Hight, W. D.**, 21.1–128

Schwerdtfeger, P.

Absorption, scattering and extinction of light in ice and snow, 21.4–368

Schwerdtfeger, Werner

Ice crystal precipitation on the Antarctic Plateau, 21.4–611

Schwiesow, R. L.

A Raman scattering method for precise measurement of atmospheric oxygen balance (*with* **Derr, V. E.**), 21.12–222

Schwitters, Michael T.

Response of the ionosphere to solar flare X-rays, 21.10–187

Sun's ultraviolet and X-ray spectrum, 21.2–506

Variability of solar X-ray emission, 21.5–722

Schytt, V.

Some comments on glacier surges in Eastern Svalbard, 21.11–743

Sciama, D. W.

Interpretation of the cosmic X-ray background, 21.9–482

Science [Wash., D.C.]

Guide to scientific instruments, 1969–1970, 21.9–103R

Science Council of Canada

Major program of water resources research in Canada, 21.2–554

Scientific American [N.Y.]

The ocean, 21.11–109R

Scoggins, James R.

Investigation of small-scale motions and the forecasting of wind profiles over short periods of time at Cape Kennedy, Florida (*with others*), 21.11–230

Scorer, R. S.

Billow mechanics, 21.10–351

Large amplitude waves, 21.6–281

Mechanisms of clear air turbulence, 21.10–84R

Present state of the theory of large amplitude oscillations in stratified fluids, 21.6–282

Ratio of the momentum and material vertical eddy transfer coefficients in buoyancy driven turbulence, 21.7–259

Scott, C. H., *see* **Gonzalez, D. D.**, 21.12–710

Scott, Diana W., *see* **Cook, G. E.**, 21.12–205

Scott, H. D., *see* **Wentzell, R. A.**, 21.4–664

Scott, J. P.

Electrical conductivity of clouds (*with* **Evans, W. H.**), 21.6–677

Scott, Norman
Applicability of cost/benefit analysis in assessing the value of meteorological services, 21.1–75
Scott, R. C., *see* **Mallory, E. C., Jr.**, 21.7–805
Scott, Ronald F.
Freezing process and mechanics of frozen ground, 21.7–459
Scott, W. D.
Charging of ice surfaces exposed to natural ice particles (*with* **Hobbs, P. V.**), 21.8–646
Single charging events due to collisions in natural snowfall, 21.9–437
Spectra of charging events due to the collision of natural ice particles with an ice surface (*with* **Hobbs, P. V.**), 21.1–756
Stratospheric aerosol layer and anhydrous reactions between ammonia and sulfur dioxide (*with* **Lamb, D.** and **Duffy, D.**), 21.1–319
Scotti, R. S.
Measurements on the growth of small disturbances in a stratified shear layer (*with* **Corcos, G. M.**), 21.10–233
Scourfield, M. W. J.
Auroral pulsations and flaming: some initial results of a cinematographic study using an image intensifier (*with* **Parsons, N. R.**), 21.10–522
Scrase, F. J.
Some reminiscences of Kew Observatory in the twenties, 21.3–99
Scully, David R.
Separation of rainfall excess from total rainfall (*with* **Bender, D. L.**), 21.5–624
Scultetus, Hans Robert
Klimatologie, 21.1–16
Seabrooke, J. M., *see* **Hufford, G. L.**, 21.9–717
Seaburn, G. E.
Effects of urban development on direct runoff to East Meadow Brook, Nassau County, Long Island, New York, 21.11–426
Seagraves, Mary Ann B.
Theoretical performance characteristics and wind effects for the Aerobee-170, 21.11–74
Unguided rockets: fundamentals of prelaunch impact prediction (*with* **Hoidale, M. E.**), 21.11–75
Sealift [Wash. D. C.]
USNS Gilliss chosen as flagship in Barbados long-range weather experiment 21.2–685
Sears, Mary (ed.), *see* **Progress in Oceanography, Oxford, England**, 21.10–789
Sears, William R. (ed.), *see* **Annual Review of Fluid Mechanics, Palo Alto Calif.**, 21.12–3
Sebastian, Hermann
Technische Zusammenarbeit im Rahmen der Weltorganisation für Meteorologie (WMO) [Technical cooperation within the framework of the World Meteorological Organization (WMO)], 21.10–1
Sebekin, B. I., *see* **Voĭt, S. S.**, 21.2–786
Seckel, Gunter R.
Vertical sections of temperature and salinity in the trade wind zone of the Central North Pacific, February 1964 to June 1965, 21.7–846
Seckel, Hansjörg
Höhenänderung des grönländischen Inlandeises, 1959–1968 [Altitude variations of the Greenland Ice Cap, 1959–1968], 21.10–786
S″edin, V. Ia.
Fluktuatsii intensivnosti v puchke impul'snogo okg pri rasprostranenii v atmosfere na rasstoianiiakh do 9.8 km [Intensity fluctuations of a pulsed laser beam during propagation in the turbulent atmosphere up to a distance of 9.8 km] (*with* **Khmelevtsov, S. S.** and **Nebol'sin, M. F.**), 21.10–576
Sedunov, Iu. S.
Oshibki izmereniia, obuslovlennye odnovremennym popadaniem neskol'kikh chastits v schetnyĭ ob″em [Measuring errors of cloud spectra resulting from the simultaneous fall of particles into the volume under study] [and English transl.], 21.4–276
See also **Aleksandrov, E. L.**, 21.12–527; **Klepikova, N. V.**, 21.3–335
Seesholtz, John R.
Results of a preliminary field study of wave generation by wind (*with* **Mollo-Christensen, E.**), 21.2–231
Seetharaman, S., *see* **Kulandaiswamy, V. A.**, 21.9–585
Seginer, Ido
Effect of albedo on the evapotranspiration rate, 21.5–568
Random walk and random roughness models of drainage networks, 21.5–763
Segman, Ralph
Those indispensable waves, 21.4–419

The three-dimensional look, 21.8–73
When we land on the Moon, 21.2–490

Sehgal, U. N., *see* **Sharma, B. L.**, 21.7–498

Seidel, Heinz, *see* **Dietze, G.**, 21.2–348

Seiden, Lester, *see* **Hilsenrath, E.**, 21.6–211

Seiff, Alvin
Measurements in the atmosphere of Mars, 21.2–447

Seiler, W.
Carbon monoxide in the atmosphere (*with* **Junge, C.**), 21.12–223
Decrease of carbon monoxide mixing ratio above the polar tropopause (*with* **Junge, C.**), 21.6–168
See also **Schmidt, U.**, 21.11–106

Sekanina, Z.
Existence of meteor showers associated with short-period comets anomalous in motion, 21.11–611

Sekhon, R. S.
Snow size spectra and radar reflectivity (*with* **Srivastava, R. C.**), 21.7–629

Seki, Syûzô, *see* **Sugisaki, M.**, 21.6–814

Sekiguti, T.
Climatic estimation of potentially cultivable areas for coco-palms in the World, 21.9–393
Climatology of autumnal rains in Japan, 21.8–289

Sekihara, K.
Auroral X-ray and atmospheric ozone, 21.6–216
Possibility of ozone measurements from satellites using the 1043 cm^{-1} band (*with* **Walshaw, C. D.**), 21.5–332

Sekikawa, T.
Electrical behavior and charge equilibrium in the atmospheric aerosol particles (*with* **Hujiwara, H.**), 21.9–436
Charged fraction and charged equilibrium on the submicron aerosol particles in the atmosphere (*with* **Kojima, H.**), 21.8–647

Selezneva, E. S.
Investigations of condensation nuclei and the chemical composition of atmospheric precipitation, 21.9–74R
See also **Vorontsov, P. A.**, 21.9–95R

Seliga, Thomas A.
Ionospheric research, 21.10–188

Selim, Mohamed A.
United Arab Republic (*with* **Nicola, F.**), 21.11–95R

Selitskaia, V. I.
Analysis of aerological conditions of atmospheric pollution in certain regions of the European territory of the U.S.S.R. (ETU), 21.9–75R
See also **Vorontsov, P. A.**, 21.7–468

Selivanov, N. P.
Issledovanie teplotekhnicheskoĭ effektivnosti obluchaemykh krovel' v usloviiakh Kryma [Study of the thermotechnical effectiveness of irradiated roofs under Crimean conditions] (*with others*), 21.5–431

Selna, L. G., *see* **Orlob, G. T.**, 21.4–598

Semel, M., *see* **Rayrole, J.**, 21.2–469

Semendiaev, K. A.
O sisteme avtomaticheskoĭ raskodirovki meteorologicheskoĭ informatsii [System for automatic decoding of meteorological information] (*with others*), 21.6–16
Obshchie kharakteristiki vychislitel'nykh mashin i osnovy programmirovaniia [General characteristics of computers and the foundation of programming], 21.10–102

Semenov, A. D.
Content of individual groups of organic substances in the waters of some Soviet rivers (*with others*) [Transl. from Russian], 21.2–573

Semenov, K. A.
Some results of tests on thunderstorm detectors with a small range of coverage [Transl. from Russian], 21.2–103

Semenov, O. E.
Primenenie pochvennykh ispariteleĭ dlia opredeleniia ispareniia v usloviiakh Zailiĭskogo Alatau [The use of soil evaporators for determining the evaporation under conditions of the Trans-Ili Ala-Tau] (*with others*), 21.4–261

Semenov, V. A., *see* **Ostrovskiĭ, V. N.**, 21.4–567; **Rybkina, M. P.**, 21.4–528

Semenov, V. K., *see* **Danilov, A. D.**, 21.4–381

Semenova, Z. D.
K vozmozhnosti ispol'zovaniia dannykh snegomernykh marshrutov dlia prognozov stoka gornykh rek Dzhungarskogo Alatau [The possibility of using snow measurement data for forecasting the runoff of mountain rivers in the Dzhungarskii Ala-Tau], 21.7–642

Semenovskiĭ, Iu. V., *see* **Dul'kin, V. N.**, 21.4–760

Sementsova, E. A., *see* **Geller, I. M.**, 21.4–328

Seminar on the Cause and Structure of Temperate Latitude Sporadic-E, 2nd, Vail, Colo., June 19–22, 1968
Proceedings, Vol. 1, 21.1–33

Seminar on the Role of Meteorological Service in Economic Development in Africa, Univ. of Ibadan, Sept. 23–28, 1968
Role of meteorological services in economic development in Africa, 21.11–14

Semonin, R. G.
Thermodynamic processes in a rapidly expanded gas, 21.1–365
See also **Cataneo, R.**, 21.9–283

Sen, A. K., *see* **Yacob, A.**, 21.12–644

Sen, B. R.
Water for food, 21.11–676

Sen, Hari K.
Electric field in the solar coronal exosphere and the solar wind, 21.6–729

Senin, E. V.
Radioaktivnost' vozdukha u beregov Vostochnoi Antarktidy [Atmospheric radioactivity near the coast of Eastern Antarctic] (*with* **Zhukov, V. A.**), 21.11–217

Senior, M. R.
Changes in the variability of annual rainfall over Britain, 21.5–622

Senn, Harry V.
Radar hurricane research, Sept. 1, 1968–Aug. 31, 1969 (*with* **Courtright, C. L.**), 21.11–269

Seno, Kunio, *see* **Ishihara, Tojiro**, 21.11–719

Serafimov, Kiril B.
Ob odnoĭ lokal'noĭ anomalii v rasprostranenii radiovoln [One local anomaly in radio-wave propagation] (with **Gorinov, N.** and **Ral'chovskiĭ, Tsv.**) [and English transl.], 21.4–420
On the dependence of the appearance of the ionospheric layer E-2 upon solar activity, 21.4–67
Srednata i visokata ĭonosfera po verme na slŭnchevoto zatŭmnenie na 20 mai 1966 g. [The middle and upper ionosphere during the solar eclipse of May 20, 1966], 21.11–209
See also **Kutiev, Ivan**, 21.11–198

Serat, William F.
Measuring the effect of air pollutants on bacterial luminescence (*with* **Kyono, J.** and **Mueller, P. K.**), 21.5–285

Şerban, Al.
Noi cercetări asupra indluenţei fronturilor atmosferice asupra variaţiei funţional a corticosuprarenalei şi gonadelor [Ne research into the influence of atmospheri fronts on the physiological changes un dergone by the adrenal cortex an gonads] (*with others*), 21.4–123

Şerbu, Cornelia
Circulaţia aerului la muntele Semenic [Ai circulation in the Semenic Mountains] 21.3–608

Serebreny, S. M.
Comparison of cloud motion vectors an rawinsonde data (*with others*), 21.3–74

Sereda, G. A.
Avtomatizirovannyi poisk informatsii i in formatsionno-poiskovyi iazyk dlia me teorologii i gidrologii [Automatized in formation retrieval and information re trieval language for meteorology an hydrology], 21.12–22

Sereda, T. D., *see* **Samoĭlov, A. I.**, 21.1–41

Seredkina, E. A.
Nekotorye osobennosti v obrazovan tumanov, v aeroportu Alma–Ata i voz nozhnosti ikh predskazaniia [Som peculiarities in the formation of fogs a the airport of Alma–Ata and possibilitie of predicting them] (*with* **Gordiunin V. I.**), 21.12–524

Seregin, Iu. A., *see* **Gaivoronskiĭ, I. I.** 21.7–119; **Voronov, G. S.**, 21.10–77R

Sergeev, G. V., *see* **Ukraine. Upravleni Gidrometeorologicheskoi Sluzhby**, 21.12–779

Sergeeva, G. A., *see* **Kolomeets, E. V.** 21.12–435

Sergin, S. Ia., *see* **Sergin, V. Ia.**, 21.8–524

Sergin, V. Ia.
Kak voznikali oledeneniia Zemli [How the Earth's glaciations arose] (*with* **Sergin S. Ia.**), 21.8–524

Sergutin, V. E.
Modelirovanie godovykh tsiklonov koi matatsii infil'tratsionnykh vodozaboro [Simulation of annual cycles of the infiltration water intake colmatege] (*wit* **Turutin, B. F.**), 21.11–727

Serlapov, S. T.
Atmosfernaia tsirkuliatsiia iuzhnogo polushariia i sinopticheskie protsessy Antarktiki [Atmospheric circulation of the Southern Hemisphere and synoptica processes of the Antarctic], 21.3–449

Serlemitsos, Peter, *see* **Boldt, Elihu**, 21.9–476

Serlin, R., *see* **Mozer, F. S.**, 21.4–385

Serna, Juana, *see* **Hansen, F. V.,** 21.5–484

Serpik, B. I., *see* **Chebotarev, A. I.,** 21.9–592

Serpolay, R.

Détermination expérimentale *in situ* de la température limite d'efficacité du dispositif de dispersion des brouillards surfondus installé sur l'aéroport d'Orly [Experimental determination, *in situ,* of the temperature efficiency threshold of the [ground-based] device for supercooled fog dispersion installed at Orly Airport] (*with* **Fabre, R.**), 21.6–154

See also **Maze, R.,** 21.12–98

Serra, A.

Sui più recenti tentativi di modificare artificialmente le condizioni atmosferiche [Recent experiments in artificial weather modification], 21.2–44

See also **Mattana, N.,** 21.2–31, –92; 21.7–170

Serra, Adalberto

[Comments on] **Frederick G. Shuman** and **John B. Hovermale:** Operational six-layer primitive model and [Reply by] **Shuman** and **Hovermale,** 21.12–134

Sestoft, I.

Versuche langfristiger Jahreszeitvorhersagen durch dreifache Metodenkombination [Attempts at long-term seasonal predictions by means of a three-fold method combination], 21.6–141

Setser, D. W., *see* **Meyer, J. A.,** 21.11–535

Sevalkina, N. A.

O tselesoobraznosti ucheta osobennosteĭ predvestnikov leta pri sostavelenii prognoza pogody na maĭ i iiun' [Expediency of taking into account the characteristics of the signs of summer when making weather forecasts for May and June], 21.2–33

Ob uchete osobennosteĭ teploobmena mezhdu okeanom i atmosferoĭ pri opredelenii dat nastupleniia sezonov [Calculation of sea–air heat transfer characteristics in determining onset dates of seasons], 21.9–211

Predvestniki estestvennykh sinopticheskikh sezonov [Indications of natural synoptic seasons] (*with* **Aleshina, A. M.**), 21.9–408

Sevastapol. Basseinovaia Gidrometeorologicheskaia Observatoriia Chernogo i Azovskogo Morei, *see* **Ukraine. Upravlenie Gidrometeorologicheskoi Sluzhby,** 21.12–779

Severny, A., *see* **Wilcox, J. M.,** 21.11–658

Severnyĭ, A. B.

Mass motions in flares and moustaches indicated by special spectral features, 21.2–465

Preliminary communication on the short-period oscillations of solar magnetic fields, 21.11–655

See also **Dimov, N. A.,** 21.7–349; **Efanov, V.,** 21.4–444; **Koval, A. N.,** 21.12–620

Severskiĭ, E. V., *see* **Severskiĭ, I. V.,** 21.9–331

Severskiĭ, I. V.

Laviny sdvigaiut les [Avalanches move forests] (*with* **Severskii, E. V.**), 21.9–331

O formakh proiavleniia lavinnoĭ erozii i vliianii lavin na les v usloviiakh severnogo sklona Zailiĭskogo Ala-tau [Various manifestations of avalanche erosion and the effect of avalanches on forests under conditions of the northern slope of the Trans-Ili Ala-Tau, 21.5–636

Usloviia lavinoobrazovaniia i massovyĭ skhod snezhnykh lavin na severnom sklone Zailiĭskogo Alatau vesnoĭ 1966 g. [Conditions for the formation of avalanches, and mass descent of snow avalanches on the northern slope of the Trans-Ili Ala-Tau in the spring of 1966] (*with* **Sosedov, I. S.** and **Filatova, L. N.**), 21.7–637

Sgavetti, M., *see* **Bernini, F.,** 21.9–747

Shabalin, V. D.

Vliianie sferichnosti Zemli na formy Zemnykh atmosferikov [Influence of the Earth's spericity on the forms of the Earth's atmospherics], 21.9–460

Shabanskii, V. P.

Smeshchenie polosy poliarnykh siianiĭ [Auroral band displacement], 21.11–522

Shabbar, M.

Vorticity in nature: the mechanics of hurricane development, 21.7–291

Shadrina, E. N., *see* **Polevitskiĭ, K. K.,** 21.8–76

Shafer, Iu. G.

Radioaktivnost' ISZ "Kosmos-6" i predpolagaemye mesta nabora radioaktivnykh oskolkov na vysote 300–350 km [Radioactivity of Cosmos-6 and the probable locations of the radioactive fission product collection at altitudes of 300–350 km] (*with others*), [and English transl.], 21.4–83

See also **Novikov, A. M.,** 21.5–464

Shaffer, Russel W.
Performance of an atmospheric water resources program in the Hungry Horse area, Montana, 1966–1967 season (*with others*), 21.12–198
Shafrin, Iu. A.
Statisticheskie kharakteristiki ozonosfery kak istochnik dopolnitel'noĭ informatsii v sputnikovoĭ i nazemnoĭ ozonometrii [Statistical characteristics of the ozonosphere as a source for additional information in satellite and land ozonometry], 21.1–328
Shafrir, Uri
Free molecular flow effects in cloud physics, 21.6–587
Terminal velocities of small particles in the Earth's upper atmosphere (*with* **Dittberner, G. J.**), 21.5–711
Shaginian, S. V.
O provedenii protivogradovykh rabot v Armianskoĭ SSR v 1964–1967 gg. [Implementation of hail prevention measures in Armenian SSR, 1964–1967] (*with others*), 21.10–73R
Shah, G. M.
Aerosols in the stratosphere, 21.12–258
Enhanced twilight glow caused by the volcanic eruption on Bali Island in March and September 1963, 21.10–481
Study of aerosols in the atmosphere by twilight scattering, 21.11–495
See also **Ramanathan, K. R.**, 21.5–451
Shaimardanov, M. Z.
Opyt obrabotki sputnikovoi informatsii ob oblachnosti na EVM [Experience in processing of satellite cloudiness information by a computer] (*with* **Terent'eva, T. M.**), 21.12–43
Shakina, N. P.
Nekotorye kharakteristiki ustoĭchivosti atmosfernykh potokov otnositel'no mezomasshtabnykh vozmushcheniĭ [Stability studies of the atmospheric flows in relation to mesoscale disturbances] (*with* **Kapitanova, T. P.**) [and English transl.], 21.2–224
O mezomasshtabnykh volnakh v struĭnom techenii na vrashchaiushcheĭsia Zemle [Intermediate-scale waves in jet streams over the rotating Earth], 21.10–236
Shalimov, V. P., *see* **Ershkovich, A. I.**, 21.8–210
Shamakhov, B. F., *see* **Bragin, Iu. A.**, 21.11–505
Shamont'ev, V. A., *see* **Gläde, P.**, 21.11–80
Shanan, L.
Ancient technology and modern science applied to desert agriculture (*with* **Evanari, M.** and **Tadmor, N. H.**), 21.4–394
See also **Tadmor, N. H.**, 21.5–648
Shanklin, M. D., *see* **Pochop, L. O.**, 21.10–379
Shannon, L. V., *see* **Cherry, R. D.**, 21.11–762; **Stander, G. H.**, 21.4–729
Shapiro, I. G., *see* **Tulinov, V. F.**, 21.6–421
Shapiro, N. B.
Development of western intensification of ocean currents [Transl. from Russian], 21.4–732
O razvitii zapadnoĭ intensifikatsii okeanicheskikh techeniĭ [Development of westerly intensification in oceanic currents] [and English transl.], 21.2–759
Shapiro, Ralph
Relationship between variations of solar corpuscular and ultra-violet radiation and the intensity of the mid-latitude airglow in the OI line (λ 5577 Å), 21.8–252
Shapiro, V. S., *see* **Anufrieva, T. A.**, 21.10–151
Sharadze, Z. S.
Obrabotka ionogramm pri nalichii vertikal'no peremeshchaiushchikhsia vozmushchennosteĭ [Processing of ionograms obtained in the presence of vertically moving disturbances], 21.8–199
Vertikal'no peremeshchaiushchiesia vozmushchennosti i nizhnie sloi ionosfery [Vertically moving disturbances and the lower layers of the ionosphere], 21.9–180
See also **Kvavadze, D. K.**, 21.8–187
Sharikov, Iu. D.
Nabliudeniia s samoleta kharaktera dvizheniia vody v poverkhnostnon sloe moria [Water movements in the sea surface layer as observed from a plane], 21.8–847
Sharma, B. L.
Study of extreme winds over North India (*with* **Sehgal, U. N.**), 21.7–498
Sharma, K. K., *see* **Banerjee, A. K.**, 21.4–114
Sharma, L. N., *see* **Shirvaikar, V. V.**, 21.1–498
Sharma, S. D.
Some results concerning the wavemaking of a thin ship, 21.4–405

Sharon, David
Distribution of the longest temperature duration in a month, 21.2–177

Sharov, Vladimir
O godovom khode zonal'noĭ tsirkuliatsii [The annual course of zonal circulation], 21.3–437
Vliianie na meridionalniia makroturbulenten obmen vŭrkhu izmeneniiata na zonalnata tsirkulatsiia [Influence of the meridional macroturbulent exchange on the alternations of the zonal circulation] (*with* **Takev, K.**), 21.7–265

Sharp, G. W., *see* **Chappell, C. R.**, 21.6–246; **Harris, K. K.**, 21.6–248

Sharp, R. D.
Satellite observations of the average properties of auroral particle precipitations: latitudinal variations (*with others*), 21.11–523
See also **Johnson, R. G.**, 21.10–512

Sharpe, David McCurry
Effective climate in the dynamics of alpine timberline ecosystems in Colorado, 21.9–394

Sharpe, John M., Jr.
Nacreous clouds at White Sands Missile Range, 21.11–497

Sharygin, G. S.
Eksperimental'nye issledovaniia stabil'nykh variatsii fazovogo fronta santimetrovykh radiovoln na prizemnykh trassakh [Experimental investigations of stable variations of the phase front of centimeter radio waves along the ground tracks] (*with others*) [and English transl.], 21.4–417

Shashoua, Y., *see* **Lomas, J.**, 21.5–482; 21.12–96

Shashun'kina, V. M.
Issledovanie planetarnogo ionosfernogo effekta vnezapnogo nachala magnitnoi buri [Ionospheric effect of sudden commencement of a magnetic storm], 21.9–181

Shastin, A. P., *see* **Rakhmanov, V. V.**, 21.2–523

Shatalov, V. A., *see* **Bugaev, V. A.**, 21.12–377

Shatashvili, L. Kh., *see* **Dorman, L. I.**, 21.9–20R

Shatberashvili, P. A.
Nekotorye kharakteristiki maksimal'nogo stoka na osushitel'nykh sistemakh Kolkhidy [Some characteristics of maximum runoff in the Kolkhida drainage system], 21.9–587

Shaub, Iu. B.
Ob opredelenii solenosti morskoĭ vody induktsionnymi metodami s vozdukha [Determination of salinity of sea water by induction methods from the air] [and English transl.], 21.2–763

Shavrin, P. I., *see* **Savenko, I. A.**, 21.3–163; 21.8–294

Shaw, John H., *see* **McClatchey, R. A.**, 21.4–176; **Schaper, P. W.**, 21.11–64; **Wang, V.**, 21.6–188

Shaw, M. S., *see* **Wildman, P. J. L.**, 21.3–327

Shaw, R. W.
Variations with height and intensity of shower echo motion, 21.8–28

Shaw, Richard J., *see* **Clyma, Wayne**, 21.9–574

Shaw, Thomas L.
Steady flow past flat plate in channel, 21.10–563

Shawhan, Stanley D.
Whistlers-use for determination of composition and temperature, 21.10–547

Shaxson, T. F.
Some long-term effects of shade trees on the yields of tea in Malawi, 21.11–283

Shcheglova, O. P.
Geneticheskiĭ analiz stoka vzveshennykh nanosov r. Varzob i opyt rascheta poiasnogo smyva [Analysis of the origin of suspended sediments of runoff of the Varzob River and computation of washout by altitude belts] (*with* **Vorob'eva, T. F.**), 21.2–594
O zakonomernostiakh formirovaniia i metode rascheta stoka v gornykh basseĭnakh [The regularities of formation and methods of calculating the runoff in mountain basins], 21.4–521

Shchegoleva, N. N., *see* **Rybkina, M. P.**, 21.4–528

Shchelchkov, G. I., *see* **Moiseenko, Iu. I.**, 21.3–204

Shchepetnov, R. V., *see* **Troitskaia, V. A.**, 21.5–741

Shchepkin, L. A.
Nekotorye zakonomernosti vysotnogo raspredeleniia kontsentratsiĭ elektronov i ionov na vysotakh mezhdu 130 i 200 km [Some laws of altitudinal distribution of electron and ion concentrations at altitudes between 130 and 200 km] [and English transl.], 21.4–68

Sloĭ F1 i temperaturnyĭ rezhim termosfery [F1-layer and the temperature regime of the thermosphere], 21.10–189

See also **Goncharov, L. P.**, 21.12–298, –299

Shcherbak, A. V.

Metodika prognoza vesennego stoka rek basseina Dnestra [Method of forecasting spring runoff of rivers in the Dniester basin], 21.12–678

Vesennii stok Dnestra i vozmozhnost' ego prognoza [Spring runoff of the Dniester River and possibility of its prognosis], 21.12–680

Shcherbak, G. M., *see* **Vishnevskii, P. F.**, 21.12–673

Shcherbak, L. V.

Issledovanie zavisimosti ispareniia s parovogo polia ot vertiakal'nogo raspredeleniia vlazhnosti pochvy [Study of the relationship between evaporation from a fallow field and vertical distribution of soil moisture], 21.2–245

Sootnoshenie mezhdu summarnym i neproduktivnym ispareniem s sel'skokhoziaĭstvennykh poleĭ [Relationship between summary and productive evaporation from agricultural fields], 21.1–101

See also **Mokliak, V. I.**, 21.12–674

Shcherbakova, E. M.

O polozhenii drevneĭ snegovoĭ granitsy na Bol'shom Kavkaze [Position of the old snow limit in the Greater Caucasus], 21.7–632

Shcherbinin, A. D.

Glubinnye vody Indiiskogo okeana [Deep waters of the Indian Ocean], 21.8–844

Struktura ekvatorial'nykh vod Indiĭskogo okeana [Water structure of the equatorial area of the Indian Ocean] [and English transl.], 21.4–705

Shcheveleva, G. I., *see* **Mikhailov, Iu. D.**, 21.12–804

Shchukin, G. G., *see* **Rabinovich, Iu. I.**, 21.2–212; 21.9–63R to 21.9–66R; **Shifrin, K. S.**, 21.3–77, –82; 21.9–77R

Shchukin, I. S.

O "strukturnoĭ" i "klimaticheskoĭ" geomorfologii i kritika nekotorykh predstavleniĭ ["Structural" and "climatic" geomorphology and criticism of some ideas], 21.9–367

Shchuko, O. B., *see* **Aleshin, V. I.**, 21.12–606

Shea, M. A., *see* **Carmichael, H.**, 21.5–467; **Smart, D. F.**, 21.3–543; 21.7–421

Sheaffer, John R., *see* **Kunreuther, Howard**, 21.12–553

Shearer, S. D., Jr.

Evaluation of atmospheric radon in the vicinity of uranium mill tailings (*with* **Sill, C. W.**), 21.3–401

Shearman, R. J.

Meteorological rocket soundings from Gan, 21.7–42

Sheeley, N. R., Jr.

Evolution of the photospheric network, 21.6–718

See also **Chapman, G. A.**, 21.1–709

Sheen, E. M., *see* **Ratcliffe, C. A.**, 21.12–84, –94

Shefov, N. N.

Concentrations of hydrogen and helium in the outer atmosphere: geocorona, 21.7–214

Hydrogen and hydroxyl emissions in the nightglow (*with* **Truttse, Iu. L.**), 21.9–219

Hydroxyl emission of the upper atmosphere, Pt. 1, 21.6–391; Pt. 2, 21.6–392

Shekhter, F. N.

O raschete luchistogo pritoka tepla [Calculation of radiative inflow of heat], 21.3–64

Shekhtman, A. N.

Gorizontal'naia vidimost' dnem v zalive Aliaska [Horizontal daytime visibility in the Bay of Alaska] (*with* **Glazova, O. P.**), 21.2–343

Veroiatnost' i intensivnost' obledeneniia morskikh sudov [Probability and intensity of icing on ships], 21.1–573

Shelby, M. E.

Model for comet–solar wind interaction, 21.8–295

Shelkovnikov, N. K.

Metodika i apparatura dlia issledovaniia turbulentnykh pul'satsiĭ temperatury v more [The method and equipment for investigation of turbulent pulses of sea temperatures] (*with* **Mirkotan, S. F.** and **Khundzhua, G. G.**) [and English transl.], 21.4–183

Nekotorye rezul'taty eksperimental'nogo issledovaniia turbulentnykh neodnorodnosteĭ v more [Some experimental results on turbulent inhomogeneities in sea] [and English transl.], 21.4–697, –739

Shelud'ko, N. G., *see* **Levenko, I. T.**, 21.2–281

Shemiakina, O. N.
Otsenka stepeni zagriazneniia vodoema organicheskimi veshchestvami metodom adsorbtsii aktivnym uglem s posleduiushcheĭ ekstraktsieĭ rastvoriteliami [Assessment of the extent of contamination of a water body with organic substances by means of the method of adsorption by activated carbon with subsequent extraction with solvents] [and English transl.], 21.2–598

Shenderovich, I. M.
O sviazi mgnovennykh i integral'nykh znacheniĭ gidrometeorologicheskikh parametrov i pokazaniĭ inertsionnykh priborov [Relationship between the instantaneous and integral values of hydrometeorological parameters and the readings of inertia instruments], 21.10–79
O vybore intervala izmereniia srednego znacheniia gidrometeorologicheskogo parametra [Selection of the interval for measuring mean values of hydrometeorological parameter], 21.3–40

Shenoy, R., *see* **Ahuja, P.**, 21.7–784

Shenoy, R. C.
Areal and time distribution of storm rainfall for small duration in respect to the Damodar catchment: a pilot study (*with* **Changraney, T. G.**), 21.10–394

Shenton, L. R.
Remarks on Thom's estimators for the gamma distribution (*with* **Bowman, K. O.**), 21.11–21

Shentsis, I. D., *see* **Borovikova, L. N.**, 21.12–708

Shepard, Francis P.
Currents in La Jolla and Scripps submarine canyons (*with* **Marshall, N. F.**), 21.4–660

Shepelavey, Bohdan
Individual sky wave mode loss statistics measured on a north–south path, 21.6–239

Shepherd, Donald C.
Auroral absorption occurrence patterns as a function of magnetic activity (*with* **Ecklund, W. L.**), 21.2–372

Shepherd, G. G.
Airglow spectroscopic temperatures, 21.7–450
Spectroscopic measurements of auroral and airglow temperatures, 21.12–38
See also **Cogger, L. L.**, 21.6–386; **Miller, J. R.**, 21.10–516; **Wrenn, G. L.**, 21.7–209

Sheppard, A. P., *see* **Breeden, K. H.**, 21.10–207

Sheppard, L. M.
Review of the aero-high program of experiments in the lower thermosphere, 21.1–320

Shere, K. D.
Effects of background winds on atmospheric gravity waves (*with* **Bowhill, S. A.**), 21.7–242

Sheremetevskaia, O. I.
Raschet i prognoz vnutrennego vlagooborota mezhdu Kaspiĭskim morem i atmosferoĭ [Computation and prediction of internal moisture cycle between the Caspian Sea and the atmosphere], 21.2–776

Shereshevskiĭ, A. I.
Raschet pritoka vody k vodokhranilishchu Kievskoĭ GES [Calculation of the water inflow into the Kiev Hydroelectric Station Reservoir], 21.5–769

Sherr, Paul E., *see* **Chang, D. T.**, 21.5–414

Shershkov, V. V.
Nekotorye voprosy zadachi vynuzhdennoĭ konvektsii v pogranichnom sloe atmosfery [Some questions of the problem of forced convection in the boundary atmospheric layer], 21.2–235

Sherwood, T. K.
Continuous washing of brine from ice (*with others*), 21.2–712

Shestakova, R. A.
Extrapolation of discharge rating curves using Chezy's formula, 21.9–601
Principles for the distribution of information hydrologic posts, 21.12–157

Shesteperov, I. A.
Proverka formuly Tsurikova po rezul'tatam nabliudeniĭ [Verification of Tsurikov's formula by the measurements in the sea] [and English transl.], 21.4–782

Shevela, G. F.
Puti povysheniia potentsiala meteorologicheskikh radiolokatorov millimetrovogo diapazona [Ways of increasing the potential of meteorological radars operating in the millimeter range] (*with* **Vaksenburg, S. I.**), 21.1–200

Shibaev, Z. K., *see* **Mirkotan, S. F.**, 21.4–66

Shibaeva, L. V., *see* **Tulinov, V. F.**, 21.6–420

Shifrin, K. S.
Absorption and scattering of microwaves in precipitation (*with* **Cherniak, M. M.**), 21.9–76R
Determination of wind velocity and waves on the sea by measuring the solar glitter parameters from satellites (*with* **Kolomiĭtsov, V. Iu.**), 21.11–20R
Effect of anisotropy of the reflection from the underlying surface on determination of the flow of outgoing short-wave radiation according to measurements from a satellite (*with* **Kolomiĭtsov, V. Iu.**), 21.11–22R
Experiment in using data on outgoing short-wave radiation obtained from Kosmos-122 satellite (*with* **Piatovskaia, N. P.**), 21.11–23R
Investigation of the field of microwave radiation in the atmosphere (*with* **Rabiovich, Iu. I.** and **Shchukin, G. G.**), 21.9–77R
Nekotorye rezul’taty izmereniĭ mikrovolnovogo izlucheniia v svobodnoĭ atmosfere [Some results of measurements of microwave radiation in the free atmosphere] (*with* **Rabinovich, Iu. I.** and **Shchukin, G. G.**), 21.3–77
O vychislenii razmerov chastits dispersnoĭ sistemy po dannym o ee prozrachnosti [Calculation of particle sizes of a disperse system from data on their transparency] (*with* **Kolmakov, I. B.** and **Chernyshov, V. I.**), 21.8–147
[Obituary of] **V. Iu. Kolomiĭtsov**, 21.11–21R
Obrashchenie spektral’noĭ prozrachnosti dlia raspredeleniia Iunge [Inversion of spectral transparency in a Junge distribution] (*with* **Perel’man, A. Ia.** and **Kompanovskiĭ, V. I.**), 21.9–415
Outgoing short-wave radiation field above the sea (*with* **Kolomiĭtsov, V. Iu.**), 21.11–24R
Primenenie radioteplolokatsii v meteorologii [Application of radio heat location in meteorology] (*with* **Rabinovich, Iu. I.** and **Shchukin, G. G.**), 21.3–82
Procedure for calculating the short-wave radiation field during anisotropic reflection from the underlying surface (*with* **Kolomiĭtsov, V. Iu.**), 21.11–25R
Thermal radiation and reflection from a rough sea surface in the microwave range (*with* **Ionina, S. N.**), 21.9–78R
Transfer of microwave radiation in the atmosphere (ed.), 21.9–27
Vliianie opticheskoĭ “zhestkosi” na tochnost’ metoda spektral’noĭ prozrachnosti [Influence of optical “rigidity” on the accuracy of spectral transparency method] (*with* **Perel’man, A. Ia.** and **Kompanovskii, V. I.**), 21.9–76
See also **Poliakova, E. A.**, 21.10–41R
Shigley, C. M.
Chemicals from seawater, 21.3–788
Shi-Igai, H., *see* **Kikkawa, H.**, 21.10–714
Shikiya, James M.
Multi-instrument performance evaluation of conductivity-type sulfur dioxide analyzers (*with* **MacPhee, R. D.**), 21.10–89
Shil’krot, G. S.
Ozero kak vodnyi prirodnyi kompleks [Lakes as a natural water complex], 21.12–712
Shilov, E. A., *see* **Nesterko, N. A.**, 21.12–642
Shima, Makoto
Study on the extraterrestrial material at Antarctica, Pt. 1 (*with* **Yabuki, H.**), 21.2–418
Study on the extraterrestrial material in Antarctica, Pt. 2 (*with* **Yabuki, H.** and **Okada, A.**), 21.5–286
Shimanuki, Atsushi
Formulation of vertical distributions of wind velocity and eddy diffusivity near the ground, 21.6–505
See also **Yamamoto, G.**, 21.3–591
Shimizu, Masayoshi
Vertical ozone distribution at Syowa Station, Antarctica, 21.3–367
Shimizu, Mikio
Model calculation of the Cytherean upper atmosphere, 21.10–609
Shimo, M., *see* **Kawano, M.**, 21.9–434
Shiniaev, B. M.
Effect of some substances on the coefficient of condensation of water drops, 21.10–44R
Shinn, Joseph H.
Analysis of wind data from a South Carolina coastal forest, 21.1–479
Shio, Hisashi
Frictional electrification of ice above and below —10° and the effect of grain boundaries in ice (*with* **Magono, C.**), 21.9–666
Shiotani, Tadahiko, *see* **Yamada, H.**, 21.1–747

Shipley, A. M.

Computer processing of tidal data, 21.1–750

Shipp, W. L., *see* **Huff, F. A.**, 21.5–135, –205

Shirasawa, T. H.

In situ oceanic Cs-137 sampling technique, 21.1–731

Shirochkov, A. V.

Raboty na stantsii Vostok [Activities at Vostok station], 21.8–40

Shirvaikar, V. V.

Finite plume model based on wind persistance for use in environmental dose evaluation (*with* **Kapoor, R. K.** and **Sharma, L. N.**), 21.1–498

Shishkin, N. S.

Investigations on the physics of clouds, 21.9–79R

On the charging of droplets in clouds and fogs, 21.9–441

Some problems of the theory of natural and artificial precipitation, 21.6–158

Shishkov, Iu. A.

Temperaturnaia advektsiia i zavikhrennost' v atmosfere vo vremia termicheskikh anomaliĭ v severnoĭ chasti Tikhogo okeana [Temperature advection in the atmosphere during the thermic anomalies in the northern part of the Pacific Ocean], 21.2–215

Shishokin, S. A.

Conditions under which solar radiation penetrates into ice, 21.10–45R

Issledovanie formul Bugera–Lamberta dlia sluchaia proniknoveniia solnechnoĭ radiatsii v led [Study of the Buger–Lambert formula for the random penetration of solar radiation into ice], 21.4–146

Ob usloviiakh proniknoveniia solnechnoĭ radiatsii v led [The conditions of penetration of solar radiation into ice], 21.4–147

Shishov, V. I.

K teorii rasprostraneniia voln v sluchaĭnykh sredakh [Theory of wave propagation in random media] [and English transl.], 21.3–395

O fluktuatsionnykh iavleniiakh pri rasprostranenii reliativistskikh solnechnykh protonov v mezhplanetnom magnitnom pole [Fluctuation phenomena during propagation of relativistic solar protons in the interplanetary magnetic field] [and English transl.], 21.3–542

See also **Dagkesamanskaia, I. M.**, 21.10–569

Shitara, Hiroshi

Air temperature fluctuation in Asia in winter viewed from the distribution of deviation sign, 21.8–313

Shkadova, A. K.

Obespechennost' srednikh mesiachnykh temperatur pochvy na severe i severozapade Evropeĭskoĭ territorii SSSR [Probability of mean monthly soil temperatures in the north and northwest territory of the European U.S.S.R.], 21.4–178

Shkinkis, Ts. N., *see* **Anosova, L. S.**, 21.11–687

Shkliaev, A. S.

Problemy global'noĭ gidrologii [Problems of global hydrology] (*with* **Balkov, V. A.** and **Matarzin, Iu. M.**), 21.2–514

Shkol'nikov, V. A.

O vliianii gorizontal'nykh gradientov na privedennuiu raznost' Dopplerovskikh smeshcheniĭ chastot pri polete ISZ v ionosfere [Effect of horizontal gradients on the reduced difference of Doppler displacements during ionospheric flights of satellites], 21.1–675

See also **Lukin, D. S.**, 21.12–603

Shkriabii, P. A., *see* **Mokliak, V. I.**, 21.12–671

Shkudova, G. Ia.

Opyt primeneniia gidrodinamicheskoĭ stantsionarnoĭ modeli dlia rascheta techeniĭ v melkom more [Experience in the use of a hydrodynamic stationary model for computations of currents in the shallow sea] (*with* **Kovalev, N. P.**), 21.9–727

Shleien, Bernard

Estimation of radiation doses to the respiratory tract from inhalation of airborne radioactivity (*with* **Wall, M. A.** and **Lutz, D.**), 21.4–84

Shliakhov, V. I.

Sostoianie i perspektivy razvitiia temperaturno-vetrovogo i spetsial'nogo zondirovaniia [Present state and future progress in the rawin and special soundings], 21.3–51

See also **Tiabotov, A. E.**, 21.7–560

Shliamin, B. A.

Permanent currents in the Caspian Sea, 21.8–848

Shmakova, V. S.

Postroenie diskriminantnykh funktsiĭ dlia trekhdnevnogo prognoza minimal'noĭ temperatury [Constructing discriminant functions for a three-day minimal temperature forecast], 21.1–249

Shmelev, G. M., *see* **Grigorevskii, V. M.**, 21.3–152

Shmeleva, E. A., *see* **Iaroslavtsev, N. A.**, 21.10–762

Shmeter, S. M.
  Mesostructure of vertical motions and wind field around and within Cb clouds, 21.1–592
  Ob odnoĭ iz vozmoshnykh prichin obrazovaniia griad kuchevo-dozdevykh oblakov [One of the possible reasons of Cb cloud band formation], 21.3–653
  Struktura poleĭ meteorologicheskikh elementov v zone kuchevo-dozhdevykh oblakov [The structure of fields of meteorological elements in the zone of cumulus rain clouds], 21.3–654

Shnaĭdman, V. A.
  O vertikal'nom raspredelenii kharakteristik pul'satisionnoĭ skorosti vetra v verkhneĭ troposfere [The vertical distribution of wind velocity fluctuations in the upper troposphere] [and English transl.], 21.3–595
  Raschet koeffitsienta turbulentnosti v sloiakh mezhdu osnovnymi izobaricheskimi poverkhnostiami [The calculation of the turbulence coefficient in layers between basic isobaric surfaces], 21.3–596
  See also **Grinval'd, D. I.**, 21.10–761; **Hsin, K. T.**, 21.4–238; **Marmershteĭn, I. I.**, 21.10–231

Shneer, V. S., *see* **Fonarev, G. A.**, 21.2–695; 21.4–768

Shnitnikov, A. V.
  Natural tendencies of future development of the Northern Hemisphere water resources and their expedient utilization, 21.2–529

Shoaib, Mohamed
  Water for industrial and economic development, 21.11–677

Sholokhova, E. D.
  Indikatrisy rasseianiia atmosfery, izmerennye na vysotakh do 22 km, v oblasti okolo 2.2 mkm [Atmospheric scattering indexes measured at altitudes up to 22 km in the region near 2.2 μ] (*with* **Fedorova, E. O.**), 21.12–579

Shonting, David H.
  On the distribution of temperature, salinity, and oxygen in the Tongue of the Ocean, Bahamas, 21.12–772
  On the seasonal distribution of temperature and salinity in Rhode Island Sound (*with* **Cook, G. S.**), 21.11–769
  Rhode Island Sound square kilometer study 1967, 21.4–722

Shorin, A. N., *see* **Shvetsov, K. Ia.**, 21.4–754

Shorthill, R. W.
  Photometric properties of selected lunar features (*with others*), 21.10–602

Shoshin, V. M., *see* **Goĭsa, N. I.**, 21.10–270; 21.11–281

Shpaĭkher, A. O.
  Advektsiia Atlanticheskikh i Tikhookeanskikh vod kak faktor izmeneniĭ klimata Arkticheskogo basseĭna [Advection of the Atlantic and Pacific waters as a factor of changes of the Arctic Basin's climate], 21.3–677
  Izmeneniia teplovogo sostoianiia Chukotskogo moria za poslednie desiatiletiia [The variation of thermal characteristics of the Chukchee Sea for the past decades] (*with* **Fedorova, Z. P.** and **Iankina, Z. S.**), 21.2–214
  Osobennosti formirovaniia anomaliĭ zimnikh gidrologicheskikh kharakteristik Vostochno-Sibirskogo i Chukotskogo moreĭ [Characteristics of anomaly development of winter hydrological conditions in the East Siberian and Chukchee Seas] (*with* **Iankina, Z. S.**), 21.4–743
  See also **Nikiforov, E. G.**, 21.4–707

Shpakova, L. N.
  Rezhim tumanov na severo-zapadnom poberezh'e Chernogo moria [Fog regime on the northwestern coast of the Black Sea], 21.12–526

Shpilevskiĭ, E. M.
  Teplopoteri izlucheniem s razlichnykh uchastkov poverkhnosti tela v razlichnykh usloviiakh mikroklimata [Radiation heat loss from different areas of the body surface under various microclimatic conditions], 21.9–379

Shreeve, Kenneth H.
  Video integrator and processor, 21.6–101

Shugaeva, S. G., *see* **Nikol'skii, G. A.**, 21.10–34R

Shuĭskiĭ, Iu. D.
  O vozdeĭstvii sil'nykh shtormov na peschanye berega vostochnoĭ Baltiki [Influence of heavy gales on the shallow

sand coasts of the eastern Baltic Sea] [and English transl.], 21.3–622

Shukla, Jagadish
  Forecasting five-day mean contours of 700 mb using empirical influence coefficients (*with* **Suryanarayana, R.**), 21.6–143
  An iterative scheme for diagnostic studies: a proposal, 21.7–511
  Numerical experiment on a disturbance in the tropical easterlies, 21.7–290
  Objective method for quantitative estimation of abnormal pentad rainfall over Ratnagiri during the month of July, 21.5–191

Shukurov, A. Kh., *see* **Rodionov, S. F.**, 21.2–25

Shuleĭkin, V. V.
  Stroenie polia tropicheskogo uragana [The structure of the tropical hurricane field] [and English transl.], 21.4–103

Shul'gina, N. V.
  Interpretatsiia nekotorykh ionogramm vysokoshirotnykh stantsiĭ [Interpretation of some ionograms of high latitude stations], 21.10–190

Shuliakovskiĭ, L. G.
  Determination of the parameters of relationships for computing the time of occurrence of some hydrologic phenomena (*with* **Trosnikov, I. V.**), 21.9–80R

Shull, Roger Don
  Transport of dissolved wastes in rivers (*with* **Gloyna, E. F.**), 21.9–659

Shumakova, E. L., *see* **Ivanov, K. E.**, 21.2–555

Shuman, Frederick G.
  Currently operational NMC model, and results of a recent simple numerical experiment (*with* **Stackpole, J. D.**), 21.3–222
  K voprosu o postroenii konechnoraznostnykh uravnenii s uchetom masshtaba karty [Problem of constructing finite-difference equations with a consideration of a map scale] (*with* **Stackpole, J.**), 21.8–101
  Konechno-raznostnaia sistema i granichnye usloviia dlia barotropnogo prognoza s pomoshch'iu polnykh uravenii [Finite-difference system and boundary conditions for forecasting with the aid of the primitive equations] (*with* **Vanderman, L. W.**), 21.8–109
  Mnogourovennaia model' dlia operativnogo chislennogo prognoza pogody, osnovannaia na reshenii polnykh uraveneii [Multilevel model for operational numeral weather forecasting based on the solution of the primitive equations], 21.8–98
  Mnogourovennaia model' po polnym uravneniiam [Multilevel model according to primitive equations], 21.8–99
  Numerical weather prediction capabilities in the '70's: a personal view, 21.7–89
  Operativnye metody ustraneniia pogreshnostei approksimatsii [Operational methods of eliminating approximation errors] (*with* **Vanderman, L. W.**), 21.8–100
  See also **Robert, A. J.**, 21.5–365

Shumilov, A. V., *see* **Mamaev, O. I.**, 21.10–808

Shumilov, O. I.
  Nekotorye voprosy avroral'nogo pogloshcheniia [Certain problems of auroral absorption], 21.1–664
  See also **Pudovkin, M. I.**, 21.10–288

Shumskii, P. A., *see* **Grosval'd, M. G.**, 21.12–723

Shumway, S. E., *see* **Hobbs, P. V.**, 21.6–569

Shupiatskiĭ, A. B., *see* **Chernikov, A. A.**, 21.1–110; **Minervin, V. E.**, 21.1–116; **Tiabotov, A. E.**, 21.7–560

Shurygina, E. A., *see* **Nogina, N. A.**, 21.7–457

Shushevskaia, G. M.
  Prognoz izbytka osadkov v iiune na iuge Zapadnoĭ Sibiri i severe Kazakhstana [Forecasting precipitation excess in the south of West Siberia and in northern Kazakhstan], 21.3–261

Shutko, A. M.
  Experimental investigations of the characteristics of thermal radio emission from the surface of the sea, 21.9–81R

Shutov, Iu. I.
  Osnovnye cherty gidrogeologii verkhov'ev basseĭnov karstovykh rek gornogo Kryma [Basic characteristics of the hydrology of the karst river basin in the mountain areas of the Crimea], 21.11–710

Shvachko, R. F., *see* **Gostev, V. S.**, 21.10–813

Shvartsburg, A. B., *see* **Gurevich, A. V.**, 21.8–706

Shved, G. M.
  Teplovoĭ effekt perenosa izlucheniia v linii atomarnogo kisloroda vblizi 63 mkm [The thermal effect of the radia-

tive transfer in the atomic oxygen line near 63 μ] (*with* **Nerushev, A. F.**), 21.1–452
Thermal effect of radiation and the factors determining it in the atmospheric layer from 30 to 100 km: review, 21.11–26R
Shveĭkin, Iu. V.
Metodika issledovaniia i uchet asinkhronnosti kolebaniĭ godovogo stoka rek [A method for investigation and evaluation of asynchrony in annual stream flow fluctuations] (*with* **Voronchuk, M. M.**), 21.4–584
Povtoriaemost' osadkov nizhe normy za vegetatsionnyi period v zone prosheniia na iuge Ukrainy [Repetition of subnormal precipitation for the vegetation period in the south Ukrainian irrigation area], 21.9–310
See also **Voronchuk, M. M.**, 21.12–28
Shver, Ts. A.
Ob otsenke uvlazhneniia sten pri kosykh dozhdiakh [Evaluation of wetting of walls during slanting rainfall], 21.7–591
Povtoriaemost' skorostei vetra pri obledenenii provodov [Frequency of wind speeds during the icing of transmission tires], 21.7–558
Shvets, G. I.
Frequence des crues printanieres (de fusion nivale) extraordininaires sur le Dniepr [Frequency of unusual spring floods on the Dnieper from snow melt], 21.7–803
Shvets, M. E., *see* **Rakipova, L. R.**, 21.9–67R
Shvetsov, K. Ia.
Metodika modelirovaniia protsessa morskogo volneniia na tsifrovoĭ vychislitel'noĭ mashine [Simulation of sea waves with the digital computer] (*with* **Shorin, A. N.**) [and English transl.], 21.4–754
Shvidkovskii, E. G.
Meteorologicheskoe raketnoe zondirovanie [Meteorological rocket sounding], 21.11–76
See also **Ivanovskii, A. I.**, 21.7–160
Siachinov, V. I.
Skaniruiushchiĭ telefotometr [Scanning telephotometer] (*with* **Kasatkin, A. M.**), 21.1–177
See also **Istomina, L. G.**, 21.12–416; **Malkevich, M. S.**, 21.6–364
Sibthorp, M. M.
Oceanic pollution, a survey and some suggestions for control, 21.4–670
Siddiqui, M. M., *see* **Llamas, Jose**, 21.7–588
Sidi, C.
Mouvements a courte periode au niveau de la turbopause [Short-period movements at the turbopause level] (*with* **Barat, J.**), 21.9–182
Sid'ko, F. Ia.
K opredeleniiu svetovogo rezhima vo vzvesiakh mikrovodorosleĭ [Determination of the radiation regime in suspensions of algae] (*with others*), 21.1–461
Sidorenkov, N. S.
Vliianie atmosfernoĭ tsirkuliatsii na skorost' vrashcheniia Zemli na primere 1956.8–1964.8 gg. [Influence of the atmospheric circulation on the velocity of the Earth's rotation based on the example of Aug. 1956–Aug. 1964], 21.1–385
Sidorenkova, G. A., *see* **Makhotkin, L. G.**, 21.8–30
Sidorova, L. V.
Usloviia obrazovamooa shugi na rekakh Araks i Akhurian [Conditions for frazil formation on the Araks and Akhurian Rivers], 21.9–672
Siebenberg, Stanley, *see* **Bove, John L.**, 21.12–232
Siebers, J. O.
Radiation analysis of a subtropical high, 21.8–49
Sieder, E. N., *see* **McCutchan, J. W.**, 21.1–730
Siedlecki, Stanisław
Program, organization and course of the Polish Scientific Expeditions to Spitsbergen, 1957–1960, 21.9–39
Siedler, G.
On the fine structure of density and current distribution and its short-time variations in different areas, 21.10–799
Schichtungs- und Bewegungsverhältnisse am Südausgang des Roten Meeres [Conditions of layering and water movements at the southern exit of the Red Sea], 21.2–743
Siegel, Robert, *see* **Howell, J. R.**, 21.1–7
Sieminski, Marya, *see* **Reed, R. J.**, 21.4–242
Sienkiewicz, Ryszard
Uwagi o wpływie jakości powłok balonowych na wynik sondowań aerologicznych [Remarks on balloon envelope effect on result of aerological soundings], 21.3–134
Sierra Pineda, Wilfredo, *see* **Molina Garcia, Hector**, 21.11–95R

Sievwright, W. M.
Quiet homogeneous arcs at Halley Bay, 1956–1965, 21.2–376
Siewert, C. E.
Remarks on half-space applications regarding an equation of transfer for a planetary atmosphere, 21.7–340
Signor, D. C.
Annotated bibliography on artificial recharge of groundwater, 1955–1967 (*with* **Growtiz, D. J.** and **Kam, W.**), 21.9–643
Signorini, C., *see* **Egidi, A.**, 21.2–135
Siksna, Reinhards
Hydrogen bonds in the structure of liquid water, 21.12–507
Models for the water molecule and related ions, 21.8–602
Role of the water substance in the structure and by-production of ions in the ambient atmospheric air, 21.9–429
Silaev, A. V., *see* **Bakhanova, R. A.**, 21.12–510
Sill, C. W., *see* **Shearer, S. D., Jr.**, 21.3–401
Sills, A. G.
Investigation into the depression of the grass minimum temperature below the air minimum at Cottesmore, 21.9–89
Silsbury, J. H.
Seedling growth of summer-dormant and non-dormant ryegrasses in relation to temperature, 21.3–708
Silva, Jorge Xavier da, *see* **Bigarella, J. J.**, 21.6–647
Silva, Paulo de Castro Moreira da
Fenómeno da ressurgência na costa meridional Brasileira [Phenomenon of upwelling on the southern coast of Brazil], 21.8–845
Idenficação da circulação oceánica nas proximidades da Guanabara e nova determinação dos coefficients "k" e "D" de Ekman [Identification of oceanic circulation near Guanabara and new determination of Ekman "k" and "D" coefficients], 21.9–728
Silver, Robert Simpson, *see* **Kronberger, H.**, 21.9–691
Silverberg, Robert
Challenge of climate, 21.5–663
Silverman, Bernard A.
An appraisal of warm fog modifications, 21.10–14R
Silverman, S. M.
Night airglow phenomenology, 21.6–393
See also **Brenton, June G.**, 21.8–244
Silvester, R.
Beach profiles and littoral drift assessment, 21.10–839
Simek, M.
Meteor mass distribution from underdense-trail echoes (*with* **McIntosh, B. A.**), 21.11–612
Simeonov, P., *see* **Andreev, V.**, 21.5–527
Simidchiev, D.
Povishavane obektivnostta na pretsenkata na efekta ot izkustvenoto vŭzdeĭstvie pri horba s gradushkite [Improving the objectiveness of the estimation of the effect of hail-prevention techniques], 21.11–150
Simmons, E. L., *see* **Else, C. V.**, 21.6–115; **Powell, D. B. B.**, 21.6–118
Simnett, G. M.
The diurnal variation of cosmic-ray electrons, 21.9–234
Observations of cosmic-ray electrons between 2.7 and 21.5 MeV (*with* **McDonald, F. B.**), 21.8–308
Simon, A.
Der Zeitliche verlauf und die Raeumliche Verteilung der kuenstlichen atmosphaerischen Radioaktivitaet in Ungarn [Time variations and its spatial distribution of artificial radioactivity over Hungary], 21.1–344
Simon, Antal
A légkőri nagy- és óriás-részecskék horizontális eloszlása Magyarországon [Distribution of large and giant atmospheric aerosol particles over Hungary], 21.5–287
Simon, G.
Rayonnement x du soleil lors de l'éclipse du 20 Mai 1966 [The X-radiance of the time of the solar eclipse of May 20, 1966], 21.3–531
Simon, G. W.
Concentration of magnetic fields in the deep convection zone (*with* **Weiss, N. O**), 21.2–468
Simon, M.
The coarse structure of the solar atmosphere (*with* **Zirin, H.**), 21.8–757
Simon, P., *see* **Švestka, Z.**, 21.11–640
Simonenko, A. N.
Ispravlenie opublikovannykh dannykh o radiantakh i orbitakh meteoritov [A correction of published data concerning radiants and orbits of meteorites], 21.7–731

- Separation of small particles from meteor bodies, and its influence on some parameters of meteors, 21.11–603

Simonov, A. I.
- Gidrologiia i gidrokhimiia vod ust'evogo vzmor'ia v moriakh bez prilivov [Hydrology and hydrochemistry of waters in estuary inlets in seas without tides], 21.11–789

Simonov, I. M.
- Fiziko-geograficheskaia kharakteristika oazisa molodezhnogo [Physio-geographical characteristic of Molodezhnaya oasis], 21.4–315

Simonov, V. V.
- O summarnom isparenii s vodoema pri nalichii ledianykh poleĭ [The total evaporation from reservoirs in the presence of ice fields], 21.6–751

Simpson, Joanne
- Airborne pyrotechnic cloud seeding system and its use (*with others*), 21.1–271; 21.10–75R
- Intensive study of three seeded clouds on May 16, 1968 (*with* **Woodley, W. L.**), 21.3–307
- Models of precipitating cumulus towers (*with* **Wiggert, V.**), 21.5–600
- On the radar-measured increases in precipitation within ten minutes following seeding, 21.12–199
- *See also* **Brier, G. W.**, 21.2–338

Simpson, R. H.
- Disturbances in the tropical and equatorial Atlantic, 21.4–106
- Synoptic analysis models for the tropics, 21.7–99

Sims, J. R., *see* **Lautzenheiser, R. E.**, 21.10–392

Sinclair, A. C. E., *see* **Gale, W. A.**, 21.9–499

Sinclair, David
- Measurement and production of submicron aerosols, 21.12–259

Sinclair, Peter C.
- Hailstorm modification (*with* **Marion, F. C.**), 21.7–638

Sinclair, W. A., *see* **Costonis, A. C.**, 21.7–131

Sinclair, William C., *see* **Chada Filho, L. G.**, 21.4–536

Sine, L., *see* **Ben Harrath, A.**, 21.1–648

Sinegub, E. S., *see* **Komarov, V. D.**, 21.2–536

Sinel'nikov, V. E., *see* **Drachev, S. M.**, 21.4–591

Sinel'nikov, V. M., *see* **Alpert, Ia. L.**, 21.1–668; 21.4–60

Singapore. Meteorological Service
- Climatological summaries, Singapore, 21.11–455
- Summary of observations 1967, 21.1–136
- Upper air data. Observations made at Singapore (Paya Lebar) during the year 1967, 21.1–142
- Upper air data. Observations made at Singapore (Paya Lebar) during the year 1968, 21.8–41

Singer, S., *see* **Montgomery, M. D.**, 21.2–149

Singer, S. Fred
- Global monitoring programs in perspective, 21.5–20
- Man and his environment, 21.3–26
- Marine pollution, 21.4–404
- *See also* **Bandermann, L. W.**, 21.6–691

Singh, Krishan P.
- Theoretical baseflow curves, 21.5–751

Singleton, F.
- Calculation of rainfall from a hurricane (*with* **Helliwell, N. C.**), 21.6–338

Singleton, G. D.
- The effect of irregularity shape on radio star and satellite scintillations, 21.11–210

Singleton, R. C., *see* **Endlich, R. M.**, 21.3–616

Sinha, S. S., *see* **Yadav, B. R.**, 21.5–442

Siniurin, Iu. N.
- K voprosu ob ispol'zovanii sputnikovoĭ ledovoĭ informatsii [The problem of using satellite ice information], 21.4–612

Sinkuvene, D. S.
- Gigienicheskaia otsenka akroleina kak zagriaznitelia atmosfernogo vozdukha [Hygienic assessment of acrolein as an atmospheric pollutant], 21.12–260

Sinno, K.
- Development of ionospheric absorption associated with stratospheric warmings in 1958 and 1963 (*with* **Higashimura, M.**), 21.7–202

Sirakov, D. E.
- Vŭrkhu prilozhenieto na kharmonichniia analiz za izsledvane na khidrologichni i meteorologichni reditsi [The application of the harmonic analysis for investigating hydrological and meteorological series] (*with* **Dzholov, G. D.**), 21.5–31
- *See also* **Dzholov, G. D.**, 21.4–508

Sîrbu, Valeria, *see* **Ţîsţea, D.**, 21.6–445

Sirotenko, O. D.
Ob uchete sviaznosti materialov agrometeorologicheskikh nabliudenii [The allowance for relationships between agrometeorological observations], 21.9–103
Poluchenie i ispol'zovanie dannykh o statisticheskoĭ strukture poleĭ osadkov v agrometeorologicheskikh raschetakh [Obtaining and use of data on the statistical structure of precipitation fields in agrometeorological calculations], 21.6–605
Statisticheskaia skhema popolneniia dannykh ob osadkakh dlia operativnogo obsluzhivaniia sel'skogo khoziaĭstva [Statistical scheme of additional data on precipitation for the purpose of routing agrometeorological service to agriculture], 21.3–662
Sirotenko, V. G.
Uchet kharakteristik pochvy pri analize vliianiia gidrometeorologicheskikh usloviĭ na urozhaĭnost' sel'skokhoziaĭstvennykh kul'tur [Estimation of soil characteristics for the analysis of the effect of hydrometeorological conditions on the yield capacity of agricultural crops], 21.9–395
Siscoe, G. L.
Meridional (north–south) motions of the solar wind (*with* **Finley, L. T.**), 21.11–298
On the north–south asymmetry in the solar wind (*with* **Coleman, P. J., Jr.**), 21.6–416
The solar wind problem with fluctuations, 21.12–431
See also **Carovillano, R. L.**, 21.6–402
Sissenwine, N.
Standard and supplemental atmospheres, 21.8–217
See also **Tattelman, P. I.**, 21.5–481
Sissons, N. V.
Ozone measuring techniques and their assessment for W.R.E. dropsonde use, 21.5–333
Sitbon, Paul, *see* **Fourrier, J.**, 21.6–453
Sitnikov, I. G.
Opyt chislennogo resheniia uravneniia balansa v ramkakh kvazisolenoidal'noĭ skhemy prognoza geopotentsiala na severnom polusharii [Numerical solution of the balance equation within the limits of a quasi-solenoidal model of forecasting the geopotential in the Northern Hemisphere] (*with* **Krichak, S. O.**), 21.1–226
Sitnikova, M. V., *see* **Rachkulik, V. I.**, 21.1–656
Sivaramakrishnan, M. V.
Relation between rain drop size distribution, rate of rainfall and the electric charge carried down by rain in the tropics, 21.2–266
Sivaraman, K. R., *see* **Bappu, M. K. V.**, 21.1–706; 21.7–363
Sivkov, S. I.
Development of actinometry (*with* **Ianishevskiĭ, Iu. D.**), 21.9–82R
See also **Brounshteĭn, A. M.**, 21.1–167
Six, Hansjoachim
Wechselwirkung zwischen dem Klima innerhalb von Verpackungen und dem Klima der Umgebung [Interrelationship between the climate inside packing cases and the circumambient climate], 21.7–681
Sizov, A. A., *see* **Efimov, V. V.**, 21.6–496
Sjogren, William L., *see* **Muller, Paul M.**, 21.12–105
Skaĭb, G.
Nekotorye osobennosti termicheskoĭ struktury polia prizemnogo vetra v Mirnom [Some peculiarities of the thermal structure of the surface wind field in the Mirny], 21.4–159
Skalský, Lumír
On some problems of tidal observations with tiltmeters and their accuracy (*with* **Pícha, J.**), 21.2–778
Skam, A. W., *see* **Sparrow, Christopher J.**, 21.12–261
Skatskiĭ, V. I.
Issledovanie vodnosti kuchevykh oblakov [Studies of the water content of cumulus clouds], 21.5–601
Skeib, G.
75 Jahre Meteorologisches Observatorium Potsdam (Festvortrag des Direktors) [75 years of service of the Potsdam Meteorological Observatory (Festival address by the Director)], 21.10–39
Skerjanec, Richard E.
Space and frequency diversity measurements on a line-of-sight path in Ohio (*with* **Samson, C. A.** and **Peterson, C. F.**), 21.3–27
Skidmore, E. L.
Potential evapotranspiration as influenced by wind (*with* **Jacobs, H. S.** and **Powers, W. L.**), 21.6–549

Skinner, N. J.
A new analysis of eclipse effects in the equatorial F-region, 21.8–200

Skliarov, V. M.
O vertikal'nykh profiliakh i sutochnom khode vektora skorosti vetra v pogranichnom sloe atmosfery nad Evropeĭskoĭ territorieĭ SSSR [Vertical profiles and diurnal patterns of the wind velocity vector in the boundary layer of the atmosphere over the European territory of the U.S.S.R.], 21.10–334
Raspredelenie vetra v planetarnom pogranichnom sloe atmosfery nad Evropeĭskoĭ territorieĭ SSR: obshchaia kharakteristika [Distribution of wind in the planetary boundary layer of the atmosphere over the European territory of the U.S.S.R.: general characteristics], 21.11–337
Sutochnyĭ khod skorosti vetra v planetarnom pogranichnom sloe atmosfery [Diurnal wind speed variation in the planetary boundary layer of the atmosphere], 21.1–511

Skoda, Georg
Die Modifizierung postfrontalen Absinkens durch stationare leewellen [Modification of postfrontal subsidence by stationary lee-waves], 21.12–464
Der ökonomische Nutzen der Meteorologie [Economic value of meteorology], 21.3–28
Eine quantitative Niederschlagsprognose mittels dynamischer Pradiktoren: Angewandt auf den Raum von Wien, Pt. 1, Die Wintermonate Dezember bis Februar [Quantitative method of precipitation forecast with dynamical predictors: applied to the area of Vienna, Austria, Pt. 1, Winter, December to February], 21.9–93
Eine quantitative Niederschlagsprognose mittels dynamischer Prädiktoren: Angewandt auf den Raum von Wien, II, Die Sommermonate Juni bis August [Quantitative method of precipitation forecast with dynamical predictors application to the area of Vienna, Pt. 2, Summer, June to August], 21.12–150
Statistische Kriterien für das Erlöschen des Föhns in Westöstrerreich [Statistical criteria for the dying out of foehn in western Austria], 21.3–618
Die Verknüpfung zwischen termischer und radioelektrischer Stabilität bei trockenadiabatischer Schichtung und bei Inversionen [The relation between thermal and radio-electrical stability in dry-adiabatic layers and in inversions], 21.5–369

Škoda, Miroslav
Některé náměty na upřesnění objektivní analýzy metodou optimální interpolace [Some topics for performing a more accurate objective analysis by the method of optimum interpolation], 21.7–81

Skotnikov, M. M.
O refraktsii sveta v atmosfere Venery [The light refraction in the atmosphere of Venus], 21.11–577

Skrelin, A. L., *see* **Ivanov, A. P.**, 21.9–416

Skriabin, N. G., *see* **Novikov, A. M.**, 21.5–464

Skriptunova, L. I.
Ob ispol'zovanii estestvennykh sostavliaiushchikh dlia prognoza temperatury vody v okeane [Use of natural components for forecasting ocean water temperatures], 21.1–251

Skrivanek, J., *see* **Tin, Aye Nyein**, 21.11–107

Skrivanek, Robert A.
Particle collection results from recent rocket and satellite experiments (*with* **Chrest, S. A.** and **Carnevale, R. F.**), 21.10–640
Rocket sampling of noctilucent clouds, 21.11–500

Skuratova, I. S.
O dlinnovolnovom izluchenii atmosfery v usloviiakh razvitoĭ konvektsii [The heat radiation of the atmosphere under developed convection condition] [and English transl.], 21.6–522
O periodicheskoĭ iacheĭkovoĭ konvektsii v troposfere [Periodical cellular convection in the troposphere], 21.4–247

Skuridin, G. A., *see* **Ershkovich, A. I.**, 21.8–210

Sky and Telescope [Cambridge, Mass.]
September's solar eclipse, 21.12–653

Skywater Conference, 1st, Denver, July 10–12, 1967
Proceedings of Skywater Conference 1 [on] Physics and Chemistry of Nucleation, 21.4–266

Skywater Conference, 3rd, Denver, Colo., Feb. 1968

Proceedings of Skywater Conference 3 [on] Production and delivery of cloud nucleating materials, 21.11–132

Skywater Conference, 4th, Denver, Colo., May 21–28, 1968
Proceedings of Skywater Conference 4 [on] Optimization of operational weather modification, 21.10–131

Skywater Conference, 5th, Denver, Colo., Feb. 1969
Proceedings of Skywater Conference 5 [on] Scientific review plans and design of the Colorado River Basin pilot project, 21.5–211

Slabá, Natalie
Statistické a mapové zpracování klimatické zabezpečenosti dat nástupu, konce a trvání charakteristických teplot na území Čech a Moravy [Statistic and chart elaboration of the total probability of the data of the beginning, end and duration of characteristic temperature for Bohemia and Moravia], 21.2–182

Slaby, Silvestr
K otazce reprezentativnosti měřeni směru větru na stanici Praha–Ruzyně letiště [Representativeness of wind direction measurements at the Prague–Ruzyne airport], 21.8–335

Slack, F. F., *see* **Elkins, T. J.**, 21.9–157

Slade, David H.
Low turbulence flow in the planetary boundary layer and its relation to certain air pollution problems, 21.3–590

Sládek, Ivan
Československá meteorologie a cizí jazyky [Czechoslovakia meteorology and foreign languages], 21.11–100R

Sladkovič, R.
Untersuchung über den Transport des Fallout von der siebenten chinesischen Kernwaffenexplosion in der Alpenraum [Investigation of the transport of fallout into the Alps from the seventh Chinese nuclear explosion], 21.3–406
See also **Reiter, Reinhold**, 21.7–685; 21.12–350

Slaughter, C. W.
Snow albedo modification, 21.6–368

Slavin, Robert M.
Balloon platforms for environmental research, 21.4–16

Slawson, P. R.
On the mean path of buoyant bent-over plumes under various atmospheric stability conditions, 21.8–221

Sleptsov-Shevlevich, B. A.
K izucheniiu dvukhletneĭ izmenchivosti atmosfernoĭ tsirkuliatsii v severnom polusharii Zemli [The study of two-yearly variability of the atmospheric circulation in the Northern Hemisphere], 21.2–90

Slivitzky, M., *see* **Roche, M.**, 21.8–468

Sloan, George J.
Recent passive density sensor effort at the Naval Ordnance Laboratory, 21.11–156

Sloan, Lansing J.
[Discussion on] **J. H. S. Bradley:** Some practical aspects of overrelaxation in diagnostic and forecast calculations [and Reply by] **Bradley** (*with* **Orville, H. D.**), 21.9–83
See also **Orville, H. D.**, 21.5–599

Sloey, William E., *see* **Howmiller, R. P.**, 21.2–688

Slonim, Iu. M.
Khromosfernye vspyshki i iavleniia v verkhnem iaruse aktivnoi oblasti, I [Chromospheric flares and phenomena in the upper layer of an active region, Pt. 1], 21.12–627

Sloss, Peter W., *see* **Goldman, J. L.**, 21.3–476

Slowey, J. W.
Effect of solar–radiation pressure on determination of the semimajor axis in satellite-orbit computation, 21.5–101

Slupetzky, H.
Ergebnisse der Gletschermessungen im obersten Stubachtal (Hohe Tauern) in den Jahren 1960–1967 [Results of glacier measurements in the upper Stubach Valley (Hohe Tauern) in the years 1960–1967] (*with* **Slupetzky, W.**), 21.1–759

Slupetzky, W., *see* **Slupetzky, H.**, 21.1–759

Smagorinsky, Joseph
Discussion on predictability, 21.3–283
Problems and promises of deterministic extended range forecasting, 21.3–275
Relative importance of variables in initial conditions for numerical predictions (*with* **Miyakoda, K.**), 21.3–247

Smart, D. F.
Classification of solar–proton events (*with* **Shea, M. A.**), 21.3–543
The daily variation of trajectory-derived high-latitude cutoff rigidities in a model

magnetosphere (*with* **Shea, M. A.** and **Gall, R.**), 21.7–421

Smed, Jens
Service Hydrographique of the International Council for the Exploration of the Sea, 21.2–655

Smedley, David
Problems of Data Processing Center establishment for the Caribbean Meteorological Institute, 21.11–92R

Smetannikova, A. V., *see* **Volkov, N. A.**, 21.5–392

Smiddy, M., *see* **Sagalyn, R. C.**, 21.6–123

Smigielski, Frank J.
Estimating mean relative humidity from the surface to 500 millibars by use of satellite pictures (*with* **Mace, L. M.**), 21.12–42

Šmilauer, J.
Variational method of ray path calculation in an anisotropic, generally inhomogeneous ionosphere, 21.6–240

Smirnov, I. P., *see* **Boĭko, A. P.**, 21.3–429

Smirnov, N. P.
O prichinakh mnogoletnikh kolebanii stoka rek [Causes of the variation of river runoff], 21.12–554
Raspredelenie momentov sviazi polia davleniia na srednem urovne atmosfery v severnom i iuzhnom polushariiakh Zemli (*with* **Potapova, T. A.**), 21.7–282
See also **Maksimov, I. V.**, 21.4–360

Smirnov, R. V.
O sviazi nekotorykh parametrov troposfery i ionosfery s izmeneniiami skorostei solnechnogo vetra [Relationship between some constants of tropospheric and ionospheric parameters and variations of solar wind velocities], 21.8–296
Preobrazovaniia form troposfernoi tsirkuliatsii v sviazi s makrostrukturoi solnechnogo vetra [Transformation of the forms of tropospheric circulation connection with the macrostructure of the solar wind], 21.8–226
Skorost' koaguliatsionnogo i kondensatsionnogo rosta chastits aerozoleĭ [The rate of aerosol particle growth by coagulation and condensation], 21.7–549
See also **Kabanov, A. S.**, 21.12–500; **Mazin, I. P.**, 21.6–585

Smirnov, V. V., *see* **Dobrovol'skiĭ, A. F.**, 21.3–193

Smirnova, A. I.
Perenos tepla techeniiami v Severnoĭ Atlantike [Heat transfer by currents in the North Atlantic], 21.10–806
See also **Strokina, L. A.**, 21.4–668

Smirnova, E. A.
Design rainfall characteristics of the U.S.S.R. territory, 21.6–609

Smirnova, K. I.
Izmenchivost' elementov vodnogo balansa Kaspiĭskogo moria [Variability of the water balance elements in the Caspian Sea], 21.1–252

Smirnova, S. I.
Prostranstvennaia izmenchivost' agrometeorologicheskikh elementov [The spatial variation of agrometeorological elements], 21.6–660

Smirnova, V. V., *see* **Gurevich, A. V.**, 21.11–187

Smith, A.
Transverse instabilities in a collisionless plasma, 21.2–151

Smith, Alonzo, Jr.
Natural materials as nucleating agents in clouds, 21.1–564

Smith, Alvin L., Jr.
Selected annotated bibliography on clear air turbulence (CAT) (*with* **Boyer, D. L.**), 21.9–139R
Selected annotated bibliography on lightning (*with* **Boyer, D. L.**), 21.5–680
Selected climatological bibliography for Thailand, 21.4–316
See also **Boyer, D. L.**, 21.4–321; 21.9–128R; **Creasi, Vincent J.**, 21.10–64R, –65R

Smith, C. V.
Weather and machinery work-days, 21.8–670

Smith, Charles G., Jr.
Geohydrology of the shallow aquifers of Baton Rouge, Louisiana, 21.10–727

Smith, Clark L.
Kinetic energy balance in a developing tropical disturbance, 21.5–416

Smith, Clifford D.
Triangular broad-crested weir (*with* **Liang, W. S.**), 21.9–577

Smith, D. H.
Diurnal variation of the mean Faraday factor at Arecibo, 21.8–201

Smith, Dale
Influence of temperature on the yield and chemical composition of "vernal" alfalfa at first flower, 21.6–433

Smith, Daniel L.
Support for the use of short films in me-

teorological education (*with* **Schwarz, G.**), 21.7–7
Smith, E. V. P.
  Flare sprays, 21.2–491
Smith, Edward J.
  Magnetic emissions in the magnetosheath at frequencies near 100 Hz (*with* **Holzer, R. E.** and **Russell, C. T.**), 21.2–386
  See also **Olson, J. V.**, 21.5–737; **Russell, Christopher T.**, 21.9–459
Smith, Ernest K.
  Do intense blobs exist in temperate latitude sporadic-E?, 21.10–191
  Some unexplained features in the statistics for intense sporadic E, 21.2–79
Smith, F. G. Walton
  Man and the tides, 21.2–791
  Real tide, 21.2–792
Smith, F. J., *see* **Cunnington, G. R.**, 21.2–122
Smith, Gerald R., *see* **Chamberlain, Joseph W.**, 21.11–573
Smith, James L.
  Shock tube experiments on snow, 21.4–296
Smith, John A.
  Tidal modulation of the Florida Current surface flow (*with* **Zetler, B. D.** and **Broida, S.**), 21.2–756
Smith, K.
  A prefabricated flat-vee weir for experimental catchments (*with* **Lavis, M. E.**), 21.8–777
  větru na stanici Phaha–Ruzyně letiště
Smith, L. G.
  Langmuir probes in the ionosphere, 21.6–124
  Results of a sequence of measurements of nighttime sporadic E, 21.10–192
Smith, L. L.
  OH contamination of night airglow observations at Haleakala, Hawaii, 21.1–470
  See also **Roach, F. E.**, 21.9–218
Smith, L. P.
  Weather factor in foot and mouth disease epidemics (*with* **Hugh-Jones, M. E.**), 21.9–396
Smith, Lawrence B.
  Observations of atmospheric density, temperature, and winds over Kauai, 21.12–207
Smith, M. F.
  Winter precipitation over East Anglia, 21.11–391
Smith, Maynard E., *see* **Bodurtha, F. T.**, 21.6–482
Smith, P. A. (ed.), *see* **International Council of Scientific Unions. Committee on Space Research, 11th Plenary Meeting, Tokyo, May 9–21, 1968**, 21.7–41
  See also **Wrenn, G. L.**, 21.10–201
Smith, Phillip J.
  Computational study of the energetics of a limited region of the atmosphere (*with* **Horn, L. H.**), 21.5–406
  Note on energy conversions in open atmospheric systems, 21.12–352
  On the contribution of a limited region to the global energy budget, 21.5–407
Smith, R. K.
  On the effects of vorticity entrainment in zonal jet flows, 21.5–524
Smith, R. W.
  Predawn enhancement over Britain, 21.6–394
  Some observations of the predawn enhancement of the red line airglow over Great Britain, 21.8–253
Smith, Raymond C.
  Underwater spectral irradiance collector, 21.5–787
Smith, Robert L., *see* **Pak, H.**, 21.5–797
Smith, S. D.
  Sensor system for wind stress measurement, 21.5–124
  Thrust anemometer measurements of Reynolds stress over the sea off Chebucto Head, N. S. (*with* **Doe, L. A. E.** and **Stevens, R. G.**), 21.2–733
Smith, Sara F.
  Formation, structure and changes in filaments in active regions, 21.12–639
  Magnetic classification of active regions (*with* **Howard, R.**), 21.2–466
Smith, W. D., *see* **Titheridge, J. E.**, 21.8–203
Smith, W. S.
  Temperature, pressure, density, and wind measurements in the stratosphere and mesosphere, 1967 (*with others*), 21.5–83
  See also **Theon, J. S.**, 21.6–456
Smith, William L.
  Improvement of clear column radiance determination with a supplementary 2.8 μ window channel, 21.4–132
  On the statistical relation between geopotential height and temperature–pressure profiles (*with* **Fritz, S.**), 21.7–463
  Polynomial representation of carbon dioxide and water vapor transmission, 21.2–124

Statistical estimation of the atmosphere's geopotential height distribution from satellite radiation measurements, 21.2–220

Smith, Winchell

Feasibility study of the use of the acoustic velocity meter for measurement of net outflow from the Sacramento–San Joaquin delta in California, 21.6–126

Smith-Rose, R. L. (ed.), *see* **International Council on Scientific Unions. Committee on Space Research, 11th Plenary Meeting, Tokyo, May 9–21, 1968, 21.7–41**

Smithson, P. A.

Effects of altitude on rainfall in Scotland, 21.8–420

Smoktiĭ, O. I.

O priblizhennom opredelenii iarkosti summerechnogo oreola real'noĭ zemnoĭ atmosfery v oblasti 0.4–1.06 MKM [Approximate determination of the twilight glow brightness of the real terrestrial atmosphere within the range of 0.4–1.06 μ], 21.9–417

See also **Kolesov, A. K.**, 21.12–592

Smolík, Zdeněk

Denní chod některých meteorologických prvku v porostovém mikroklimatu ozimé psenice v agrotechnickém pokusu [The daily variation of some meteorological elements in the microclimate of winter wheat in an agrotechnical experiment] (*with others*), 21.7–679

Smoot, George F.

Technique for rapid measurement of flows in large streams (*with* **Cahal, D. I.** and **Medina, K. D.**), 21.9–578

Water-stage and rainfall dual recorder (*with* **Buchanan, T. J.**), 21.12–103

Smyth, A. J.

Brief statement on the role of soil survey in hydrology and irrigation (*with* **Bramao, D. L.**), 21.8–677

Snapir, N., *see* **Berman, A.**, 21.11–465

Snellman, Leonard W.

Man-machine mix in applied weather forecasting in the 1970's, 21.3–223

Snesareva, N. S., *see* **Mokliak, V. I.**, 21.12–672

Sneyers, R.

Notes sur la notion d'indépendance climatologique [Notes on the concept of independence in climatology], 21.9–374

On the climatological analysis of local series of observations, 21.9–19

Plus fortes gelées enregistrées en Haute Belgique comparées à celles d'Uccle (Bruxelles) [Comparison of the most intense frosts of upper Belgium with those of Uccle (Bruxelles)], 21.5–483

Temps en 1968 [Weather in 1968], 21.5–68

Snijders, R.

Theory of hard X-ray bursts, 21.11–299

Snitkin, A. D., *see* **Kopylov, V. P.**, 21.3–214

Snitkovskaia, T. M.

Metod opredeleniia khlororganicheskikh soedineniĭ, vydeliaemykh v vozdukh iz kleevykh kompozitsiĭ [A method for determining chlororganic compounds discharged into the air by glue compositions] (*with* **Drigval', G. F.**), 21.1–307

Snitkovskii, A. I.

Mezostrui nad Moskvoi [Mesojets over Moscow] (*with* **Koshel'kova, G. A.**), 21.12–486

Shtormovye i uragannye vetry na Evropeĭskoĭ territorii SSSR 17–19 aprelia 1967 g. [Storm and hurricane winds in the European U.S.S.R. on April 17–19, 1967] (*with* **Koroleva, T. A.**), 21.1–516

See also **Peskov, B. E.**, 21.7–308; 21.12–400

Snodgrass, Frank E., *see* **Caldwell, D. R.**, 21.3–781

Snoke, Myron Dow

Coastal Engineering Research Center (CERC), 21.4–783

Snyder, Floyd P., *see* **Fejer, J. A.**, 21.11–291

Snyder, Willard M., *see* **Decoursey, D. G.**, 21.6–747

Soares, Pedro Jose Serre Ribeiro, *see* **Cordeiro, Newton Velloso**, 21.11–95R

Soberman, R. K.

Extraterrestrial origin of noctilucent clouds, 21.8–588

Sobolev, V. V.

Al'bedo planetnoi atmosfery [Planetary atmospheric albedo], 21.8–731

Course in theoretical astrophysics, 21.8–712

Diffuziia izlucheniia pri sil'no vytianutoĭ indikatrise rasseianiia [Radiation diffusion under conditions of a greatly extended scattering index] [and English transl.], 21.4–148

Diffuznoe otrazhenie i propuskanie sveta atmosfernoi pri proizvol'noi indikatrise rasseianiia [Diffuse reflection and transmission of light by the atmosphere with the arbitrary scattering indicatrix], 21.8–571

Neizotropnoe rasseianie sveta v polubeskonechnoi atmosfere, III [Anisotropic light scattering in a semi-infinite atmosphere, Pt. 3], 21.8–574

Soboleva, N. S.
Rezul'taty nabliudeniia Iupitera v Pulkove na volne 3.95 cm [Results of Jupiter observations at Pulkova at 3.95 cm] (*with* **Timofeeva, G. M.**), 21.10–586

Sobral, J. H., *see* **De Mendonça, F.,** 21.5–80

Socor, Elena
Cercetări agrometeorologica la pomi [Agrometeorological research in trees] (*with* **Rogojan, I.**), 21.9–397
Particularitătile condiţiilor agrometeorologice din anul agricol 1967–1968 pentru cultura vitei de vie [Particularities of agrometeorological conditions in the agricultural year 1967–1968 for vineyard cultures] (*with* **Iliescu, C.**), 21.9–398
See also **Berbecel, Octavian,** 21.8–533; **Miha, Iosefina,** 21.9–387; **Rogojan, Iulia,** 21.10–467

Soczyńska, Urszula
Prognozowanie objętości wezbrań roztopowych w rejonach wysokogórskich [Forecasting snowmelt volume in regions of high mountains], 21.4–524
Prognozowanie przebiegu wezbran roztopowych w dorzeczu gornego Dunajca methoda fali jednostkowej [Forecasting a course of snowmelt floods in the highland Dunajec Basin by means of the unit hydrograph method], 21.8–783

Sofer, M. G.
Nekotorye osobennosti vesennikh zatorov l'da na r. Pechore [Ice jams in spring on the Pechora River], 21.9–671

Sofko, G. J.
Periodic fading in 42-MHz auroral backscatter (*with* **Kavadas, A.**), 21.11–524

Soglasnova, A. G., *see* **Orlova, E. M.,** 21.12–176

Soicher, H., *see* **Arendt, P. R.,** 21.8–159

Sokolev, S. D.
Zelenye nasakhdeniia i ikh razmeshchenie na territorii zhilogo mikroraĭona v sviazi s formirovaniem optimal'nogo vetrovogo rezhima [Green plants and their distribution on the territory of a residential micro-region in connection with the formation of an optimum wind regime], 21.10–319

Sokolov, A. A.
The essence of the problem and the significance of the symposium, 21.11–433
Methods of snowmelt maximum discharge computation in cases of absence or insufficiency of hydrometric data, 21.8–469

Sokolov, V. A., *see* **Mikhnevich, V. V.,** 21.1–684; 21.9–505

Sokolov, V. N.
Sravnitel'naia otsenka tekhnicheskikh nositeleĭ dlia vvoda v EVM gidrometeorologicheskoĭ informatsii [A comparative evaluation of technical media for introduction of hydrometeorological information into a computer], 21.11–15

Sokolovskii, D. L.
General problems, theory of formation and methods of flood computation (*with others*), 21.8–477
On the method of unit hydrograph and modelling of rainfall floods by electronic analogue computers, 21.7–781

Sokołowska, Krystyna
Porównanie metody pelengacyjnej pomiaru wiatrów górnych z metodą radiolokacyjną [The comparison of pelengation and radar methods used for high wind measurements], 21.3–73

Solberg, H. Gordon, Jr.
Jupiter's red spot in 1967–1968, 21.11–594
A 3-month oscillation in the longitude of Jupiter's red spot, 21.11–593

Soldatkina, A. M.
Chislennye eksperimenty po prognozu nekotorykh elementov meteorologicheskogo rezhima v Tashkente s pomoshch'iu analogov [Numerical experiments on forecasting several elements of the meteorological regime of Tashkent using analogs], 21.1–234
Nekotorye voprosy prognoza kharakteristik temperaturnogo rezhima v Tashkente s pomoshch'iu analogov [Forecasting temperature regime characteristics for Tashkent using analogs], 21.2–178

Solianek, E. G., *see* **Bakhanova, R. A.,** 21.6–538

Soliman, S. H., *see* **Elnesr, M. K.,** 21.3–495

Soller, R. R., *see* **Herbert, G. A.,** 21.1–536

Solodovnikova, A. P.
Ob izmenchivosti temperaturnogo gradienta rastenie-vozdukh po fazam razvitiia ozimoĭ pshenitsy [Changeability of the plant–air temperature gradient by phase of the development of winter wheat], 21.1–97

Solokha, T. F.
Priblizhennyĭ raschet skorosti vetra v 100-metrovom pogranichnom sloe atmosfery dlia tsentral'nykh oblasteĭ Evropeĭskoĭ territorii SSSR [Approximate calculation of wind speeds in the 100-meter atmospheric boundary layer for the central areas of the European U.S.S.R.], 21.1–523

Solomon, Philip M.
Opacity of the Venus atmosphere, 21.1–686

Solon, Leonard R.
System for large volume aerosol sampling in the stratosphere using electrostatic precipitation (*with others*), 21.1–205

Solonitsyna, N. F., *see* **Drobzhev, V. I.**, 21.5–343

Solopov, Andreĭ Vasil'evich
Oases in Antarctica, 21.11–27R

Solórzano, Lucia
Determination of ammonia in natural waters by the phenolhypochlorite method, 21.9–701

Solot, S. B.
Mean meridional air flow implied by 200-mb GHOST balloon flights in temperate latitudes of the Southern Hemisphere (*with* **Angell, J. K.**), 21.4–93

Solov'ev, A. D.
Sliianie kapel' zhidkosti pri soudareniiakh [Coalescence of liquid drops upon collision], 21.6–564
See also **Gaivoronskiĭ, I. I.**, 21.6–153

Solov'ev, V. A.
Prostranstvenno-vremennye kharakteristiki grozovoi aktivnosti po dannym pelengovaniia atmosferikov [Space–time storm activity characteristics according to atmospherics direction finding data], 21.7–305
See also **Imianitov, I. M.**, 21.9–42R

Solov'ev, V. E., *see* **Nesterko, N. A.**, 21.12–642

Soltanpour, P. M.
Relative growth rate of potato plants as affected by solar energy at high elevation (*with* **Moore, F. D., III**), 21.7–319

Soma, Seiji
Dissolution of separation in the turbulent boundary layer and its applications to natural winds, 21.7–469

Sommer, Simon C.
Experiment to determine the structure of a planetary atmosphere (*with* **Yee, L.**), 21.7–753

Sommerfeld, R. A.
The classification of snow metamorphism (*with* **LaChapelle, E.**), 21.11–404
Classification outline for snow on the ground, 21.4–289
Role of stress concentration in slab avalanche release, 21.5–637

Sonchik, V. K., *see* **Zuev, V. E.**, 21.4–667

Son'kin, L. R.
Processing and analysis of observations of air pollution in cities (*with* **Chalikov, D. V.**), 21.9–83R
Some results of synoptic–climatological analysis of air pollution in cities, 21.9–84R

Sood, R. K.
Detection of high energy gamma-rays from the galactic disk at balloon altitudes, 21.9–483
Scavenging of atmospheric particulate matter by falling hydrometeors (*with* **Jackson, M. R.**), 21.12–536

Soong, Su Tzai
Short-period kinetic energy cycles in the atmosphere (*with* **Kung, E. C.**), 21.5–408

Soons, Jane M.
Erosion by needle ice in the Southern Alps, New Zealand, 21.7–445
Observations on the growth of needle ice (*with* **Greenland, D. E.**), 21.12–462

Sopper, William E.
Renovation of municipal sewage effluent for groundwater recharge through forest irrigation, 21.8–693

Sorani, Roberto, *see* **Epifani, Roberto**, 21.7–614

Sorkina, A. I.
Otsenka kolichestva sudovykh nabliudeniĭ, neobkhodimykh dlia rascheta rezhimnykh kharakteristik vetra nad morem [Evaluation of the number of ship observations necessary for calculating the wind regime characteristics over the sea], 21.1–338
Sopostavlenie rasschitannykh vetrovykh kharakteristik nad morskimi akvatoriiami s nabliudennymi na sudakh i ostrovakh [A comparison of calculated wind characteristics over marine aquatoria and observations from ships and islands] (*with* **Gnevko, G. T.**), 21.11–339
See also **Kostiuchenko, V. P.**, 21.10–557

Sorkina, V. N.
Zharkaia pogoda v Erevane [Hot weather in Erivan], 21.7–440
Sormail, L., *see* **Thirriot, C.**, 21.1–791
Sorochan, O. G.
O metodike rascheta intensivnosti osadkov [Methods for calculating the intensity of precipitation], 21.9–304
See also **Orlova, V. V.**, 21.9–62R
Sorochinskiĭ, M. A.
Rezhim shtormovogo vetra na territorii SSSR za period s 1956 po 1965 g. [Storm wind regime over the U.S.S.R. during 1956–1965] (*with others*), 21.1–517
See also **Chistiakov, A. D.**, 21.12–544
Sorokin, Iu. I.
Eksperimental'noe issledovanie skorosti i mekhanizma okisleniia serovodoroda v Chernom more s pomoshch'iu s-35 [Experimental studies of the rate and mechanism of oxidation of hydrogen sulfide in the Black Sea with the aid of S-35), 21.11–760
Sorokina, L. P.
Fotometricheskie issledovaniia atmosfernoĭ aktivnosti Iupitera v 1965–1966 gg. [The photometric investigation of atmospheric activity of Jupiter in 1965–1966], 21.11–595
Sorokina, V. N.
Osobennosti perenosa vozdushnykh mass i sviazannye s nimi tipy pogody zimoĭ v Batumi [Features of air-mass transport and associated types of weather in winter in Batumi], 21.11–279
Sosa, Horacio C.
Paraguay: the problem in the Chaco's Northwest zone, 21.11–95R
Sosebee, Ronald E., *see* **Herbel, C. H.**, 21.3–707
Sosedov, I. S.
K metodike opredeleniia snegozapasov v gornom basseĭne [Methods of determining the volume of snow deposits in a mountain basin] (*with* **Filatova, L. N.**), 21.3–669
Letnee summarnoe isparenie v srednegornom poiase Zailiĭskogo Alatau i vliianie na nego ekspozitsii sklonov [Summer evapotranspiration in the central mountain belt of the Trans-Ili Ala-Tau slope exposure] (*with* **Filatova, L. N.**), 21.6–550
O roli tverdykh i zhidkiky osadkov v formirovanii stoka [Role of solid and liquid precipitation in the formation of runoff], 21.3–663
See also **Mansurova, E. P.**, 21.3–661; **Severskii, I. V.**, 21.7–637; **Sozonov, V. A.**, 21.3–568; 21.11–443
Sosic, Mario V. J.
Hydrogeological appreciations of the province of La Rioja, 21.9–633
Soskin, I. M.
Kolebaniia intensivnosti Severo-Atlanticheskogo techeniia i uroven' Svernogo moria [Fluctuations of the North Atlantic current intensity and of the level of the North Sea], 21.9–726
Sosnin, A. V., *see* **Zuev, V. E.**, 21.1–178
Sosnova, A. K., *see* **Lebedinets, V. N.**, 21.11–561; 21.12–615
Sotobayashi, Takeshi
Inter-hemisphere transfer of fresh debris from French nuclear tests in 1968 (*with* **Suzuki, T.** and **Furusawa, A.**), 21.6–261
Soto Mora, Alicia
Análisis geográfico del Valle de San Juan Del Río, Querétaro [Geographical analysis of the valley of San Juan del Rio, Queretaro], 21.7–683
Souders, Sue W.
Relative geometries of the Earth, Sun, and Mars from the year 1973 to the year 2000, 21.9–44
Souka, A. F.
Theoretical evaluation of the performance of a double exposure flat-plate collector [of solar radiation] using a single reflector (*with* **Safwat, H. H.**), 21.1–431
Soulage, G.
Limits of efficiency of silver iodide ground burners to seed clouds (*with* **Admirat, P.**), 21.7–124
See also **Mayoral, J. R.**, 21.12–180
Soules, Stanley D.
Sun glitter viewed from space, 21.12–782
Sousk, Stephen F.
The effect of galactic cosmic-rays upon the dynamics of the solar wind (*with* **Lenchek, A. M.**), 21.10–595
South Africa. Weather Bureau
Historical weather charts for the Southern Hemisphere for the period January to August 1963, 21.11–58R
South Africa. Weather Bureau, Nuusbrief
News from Marion and Gough Islands, 21.5–77
News from SANAE, 21.5–78

Southworth, R. B., *see* **Nilsson, C. S.**, 21.11–602

Soveshchanie po Voprosam Kompleksnogo Izucheniia Rezhima Poverkhnostnykh i Podzemnykh Vod v Karstovykh Raionakh, 1st, Simferopol, 1966
Trudy (Proceedings), 21.7–774

Sovetova, V. D.
Ob"ektivnyĭ analiz polia geopotentsiala s privlecheniem dopolnitel'noĭ informatsii [Objective analysis of geopotential fields taking into account additional information], 21.2–37

Sozonov, V. A.
Fil'tratsionnye svoĭstva gornykh pochv na severnom sklone Zailiĭskogo Alatau [Permeability of mountain soils on the northern slope of the Trans-Ili Ala-Tau] (*with* **Sosedov, I. S.**), 21.11–443
O sezonnom promerzanii i ego gidrologicheskom effekte v usloviiakh severnogo sklona Zailiĭskogo Alatau [Seasonal soil freezing and its hydrological effect on northern slope of the Trans-Ili Ala-Tau] (*with* **Sosedov, I. S.**), 21.3–568

Sozou, C.
Non-linear symmetric inflation of a magnetic dipole (*with* **Windle, D. W.**), 21.8–297
Self consistent ring current in the Earth's dipole field (*with* **Windle, D. W.**), 21.2–152

Space Data Corp., Phoenix, Ariz., *see* **Bollerman, B.**, 21.3–141

Space/Defense Corp., Birmingham, Mich., *see* **Brian, M.**, 21.6–96

Spackman, E., *see* **Dixon, R.**, 21.12–138

Spänkuch, Dietrich, *see* **Foitzik, Leonhard**, 21.7–704

Spain. Centro de Estudios Hidrográficos
Resumen de programas hidrológicos preparados por el Centro de Estudios Hidrográficos (Ministerio de Obras Publicas, España) para el Ordenador IBM 11-30 [Summary of hydrological programs prepared by the Center of Hydrographic Studies, Ministry of Public Works, Spain, for the IBM 11-30 Computer], 21.11–103R

Spain. Instituto Geográfico y Catastral, Madrid
Anuarios del Servicio de Geomagnetismo y Aeronomía, 1965 [Yearbooks of the Geomagnetic and Aeronomical Service, 1965], 21.9–216R
Anuarios del Servicio de Geomagnetismo y Aeronomía 1966 [Yearbooks of the Geomagnetic and Aeronomical Service, 1966], 21.9–217R

Spain. Servicio Meteorológico Nacional
Boletín mensual climatológico [Monthly climatological bulletin], 21.9–218R
Calendario meteorológico fenológico, 1970 [Meteorological phenological calendar, 1970], 21.9–219R
Manual del observador de meteorología [Observer's manual of meteorology], 21.9–104R
Resumen anual de las observaciones meteorológicas, año 1962 [Annual résumé of meteorological observations, 1962], 21.11–77R

Spar, Jerome
Aircraft reconnaissance of winter coastal cyclones in the northeastern United States (*with* **Friedman, H. A.** and **Zuckerberg, F. L.**), 21.6–325
Experiment in localized numerical weather prediction, 21.5–175
Snow prediction in the eastern United States (*with* **Brandes, E. A.** and **Grillo, J. N.**), 21.8–102

Sparrow, Christopher J.
Growth and work of the Auckland Air pollution Research Committee (*with others*), 21.12–261
Some geographic aspects of air pollution in Auckland, 21.12–262

Spasov, V.
Metod za opredeliane parametrite na vodonosnite plastove po danni ot rezhimni nabliudeniia [Method of establishing the parameters of aquifers by data of regime observations], 21.1–790
Otnosno sumarniia potentsial na pochvenata vlaga i metodite za negovoto opredeliane [Total soil moisture potential and methods of its determination], 21.2–532

Spatola, Alfred A., *see* **Plank, V. G.**, 21.3–303

Spaulding, A. D., *see* **Disney, R. T.**, 21.2–409

Speich, J.
Prévision barotrope spectrale sur les deux hemisphères [Spectral barotropic forecasting over the two hemispheres], 21.7–104

Speiman, Michael J.
Response of the atmosphere to the surface features of a tropical island, 21.10–331

Spencer, A. Theodore, *see* **Blanchard, D. C.,** 21.6–612

Spencer, John S., *see* **Tovey, Rhys,** 21.7–538

Spichkin, V. A., *see* **Kirillov, A. A.,** 21.2–631

Spidchenko, A. N.
- Algoritm mashinnogo kontrolia glubokovodnoi gidrologicheskoi informatsii i sozdanie novogo glubokovodnogo performassiva S raschetnymi velichinami [Algorithm of automated checking of hydrological deep-sea information and the establishment of a new deep-water punch card system with calculated values], 21.12–739
- Izmenchivost' temperatury vody v glubinnykh sloiakh Severnoĭ Atlantiki [Variability of water temperature in deep layers of the Northern Atlantic], 21.1–253

Spiegel, Herbert, *see* **Stone, A. Harris,** 21.8–329

Spiegel, Joseph M.
- Simulation of Venus atmospheric entry by Earth re-entry (*with* **Wolf, F.** and **Zeh, D. W.**), 21.8–743

Spiegel, Stanley L., *see* **Bowley, C. J.,** 21.4–403

Spiegler, David B.
- Prediction of snowfall distribution about 850-mb cyclones along the Atlantic seaboard, 21.11–119

Spielbauer, M.
- Numerisches Integrationsverfahren zur Auswertung von Flügelmessungen [Numerical integration procedure for evaluating current-meter measurements] (*with* **Faiss, W.** and **Müller, O.**), 21.9–723

Spier, J. L.
- Balonnen boven het zuidelijk halfrond [Balloons above the Southern Hemisphere], 21.10–58

Spillane, K. T.
- A severe storm radar signature in the Southern Hemisphere (*with* **Dixon, B.**), 21.12–389
- Synoptic and structural analysis of TOPCAT flight situations, 21.6–481
- *See also* **Australia. Bureau of Met.,** 21.3–123; **Brook, R. R.,** 21.6–477

Spiridonov, Iu. G., *see* **Lukin, D. S.,** 21.12–603

Spirina, L. P.
- O vekovom khode sredneĭ temperatury vozdukha Severnogo polushariia [The secular trend of mean air temperature in the Northern Hemisphere], 21.2–187

Spizzichino, A.
- Étude des interactions entre les différentes composantes du vent dans la haute atmosphère [Study of the interaction between the different wind components in the upper atmosphere], 21.6–514
- Étude expérimentale des vents dans la haute atmosphère, I [Experimental study of winds in the upper atmosphere, Pt. 1], 21.6–515

Split, Yugoslavia. Hydrografski Institut
- Glavne ustanova koje su se bavile istrazivanjem Jadranskog mora u 1967 godini [Main institutions which took part in the research of the Adriatic Sea during the year 1967], 21.2–656
- Opći prikaz izvršenih radova i istrazivanja na istočnoj obali Jadrana u 1967 godini [General review of works carried out and researches made along the eastern coast of the Adriatic Sea during the year 1967], 21.2–657

Spohn, Clifford A.
- Data utilization from meteorological satellites, 21.9–52
- Meteorological satellites and the World Weather Watch, 21.2–4

Spooner, A. H.
- Low visibility simulation, 21.5–674

Spreiter, John R.
- Hydromagnetic aspects of solar wind flow past the Moon (*with others*), 21.12–432

Sprenger, K.
- On some relationships between correlation analysis and similar-fade analysis results of drift measurements in the lower ionosphere (*with* **Schminder, R.**), 21.7–203

Spurgeon, W. I.
- Influence of row direction on the microclimate and yield of skip-row cotton (*with* **Hursch, J. S.**), 21.4–335

Squires, Patrick
- Precipitation augmentation, 21.8–128

Šrămek, L.
- Changes of the freezing temperatures of water drops after seeding with AgI aerosols and their relations to external conditions (*with others*), 21.12–200

Sredneaziatskiĭ Nauchno-Issledovatel'skiĭ Gidrometeorologicheskiĭ Institut, Tashkent
- Chislennoe modelirovanie protsessa stoka gornykh rek [Numerical model of runoff processes of mountain rivers], 21.11–104R

Sreedharan, C. R., *see* **Mani, A.**, 21.6–214
Srinivasan, T. R., *see* **Rai Sircar, N. C.**, 21.8–392; 21.12–479
Srivastava, H. N.
  Biexponential model of radio refractive index over India (*with* **Pathak, R. B.**), 21.7–216
Srivastava, P. S.
  Monthly wave characteristics of the Arabian Sea (*with* **Nair, D. K.** and **Raman Kartha, K. R.**), 21.10–832
Srivastava, R. C.
  Note on the theory of growth of cloud drops by condensation, 21.1–593
  Temperature, pressure and wind perturbations produced by melting snow (*with others*), 21.8–382
  See also **Atlas, D.**, 21.2–59; **Sekhon, R. S.**, 21.7–629; **Tatehira, R.**, 21.10–87R
Stacey, J. M., *see* **Reber, E. E.**, 21.9–489
Stachý, Juliusz
  Wieloletnia prognoza odpływu rzek Polskich [Long term forecast of Polish rivers runoff], 21.9–604
  Zmniejszanie się odpływu rzek polskich w bieżącym stuleciu [Decrease of runoff of Polish rivers this century], 21.2–280
  See also **Internatl. Assn. of Scientific Hydrology**, 21.1–48
Stackpole, John D., *see* **Shuman, F. G.**, 21.3–222; 21.8–101
Staelin, David H.
  Passive remote sensing at microwave wavelength, 21.6–36
  See also **Toong, H. D.**, 21.11–378
Staffanson, Forrest L.
  A capability model for passive spheres at high altitudes (*with* **Phibbs, R. G.**), 21.11–28
Staggs, Donald W., *see* **Changnon, Stanley A., Jr.**, 21.8–67
Stahl, W.
  General considerations on isotopic paleotemperature determinations and analyses on jurassic ammonites (*with* **Jordan, R.**), 21.3–546
Stair, A. T., Jr., *see* **Huppi, E. Ray**, 21.7–354
Staley, D. O.
  Adiabatic lapse rate in the Venus atmosphere, 21.7–755
  Radiative modification of selected vertical temperature distributions (*with* **Jurica, G. M.**), 21.2–198
Stall, John B.
  Hydraulic geometry of Illinois streams (*with* **Fok, Yu-Si**), 21.2–586
  See also **Terstriep, M. L.**, 21.5–649
Stamm, Alfred J.
  Study of cloud distributions using reflected radiance measurements from the ATS satellites (*with* **Vonder Haar, T. H.**), 21.11–379
Stăncescu, I.
  Condiţiile aerosinoptice care au determinat precipitaţii abundente în bazinele hidrografice din grupa vestică a rîurilor din R.S. România [The weather synoptic conditions causing heavy rainfall on the hydrographic basins of the Socialist Republic of Rumania's west group of rivers], 21.5–187
  Unele caracteristici în repartitia fenomenelor orajoase frontale din Cîmpia Română şi Dobrogea [Some distribution characteristics of frontal storm events over the Rumanian Plain and Dobrogea] (*with* **Iliescu, M.**), 21.7–311
  See also **Iliescu, M.**, 21.3–478
Stanchev, K.
  Bŭlgarskata Khidrometeorologichna sluzhba kŭm 25-godishninata na NRB [The Bulgarian Hydrometeorological Service on the 25th Anniversary of the Republic of Bulgaria], 21.7–8
  Tropopauzata i gradushkite [The tropopause and hail], 21.1–636
Standar, G. J., *see* **Kriel, J. P.**, 21.11–95R
Stander, G. H.
  Average velocities of some ocean currents as deduced from the recovery of plastic drift cards (*with* **Shannon, L. V.** and **Campbell, J. A.**), 21.4–729
Standil, S., *see* **Briggs, R. M.**, 21.3–534
Stanev, Sv.
  Nebelfrostablagerungen an Freileitungen unter Gebirgsbedingungen [Rime deposits on overhead transmission lines under mountain conditions], 21.5–590
  Uber eine vereinfachte Formel zur Bestimmung der Grösse von Nebelfroatablagerungen an Leitungen bei wachsender Höhe über Grund [A simplified formula for the calculation of the size of rime deposits on transmission lines with increasing height above ground], 21.7–559
  Vŭrkhu vŭprosa za pulsatsiite na skorostite pri silnite vetrove [The question of pulsation of velocities in strong winds] (*with* **Ianev, Dr**), 21.1–518

Standil, S., *see* **Briggs, R. M.**, 21.7–398

Stanford Research Inst., Menlo Park, Calif., *see* **Mancuso, R. L.**, 21.3–69

Stanhill, G.
- Practical soil moisture problems in agriculture (*with others*), 21.7–656
- Simple instrument for the field measurement of turbulent diffusion flux, 21.3–196
- *See also* **Kalma, J. D.**, 21.6–350

Staniforth, A.
- A remote data-recording station, 21.9–450

Staniukovich, K. P., *see* **Bronshten, V. A.**, 21.4–423

Stanley, Albert
- Hectic voyage of the Hassler, 21.2–681
- Kane's Arctic gateway, 21.2–682

Stanley, E. M.
- Viscosity of sea water at moderate temperatures and pressures (*with* **Batten, R. C.**), 21.4–661

Stanley, R. J.
- Volumetric θ/O_2 diagrams for the Mediterranean Sea, 21.4–706

Stansfield, J. M.
- Effect of the weather on farm organization and farm management, 21.8–675

Stark, L. P.
- Weather and circulation of February 1969: strong blocking over North America for the sixth consecutive month, 21.1–137
- The weather and circulation of October 1969: widespread cold with high-latitude blocking over North America, 21.8–36

Starkov, G. V.
- Analiticheskoe predstavlenie ekvatorial'noĭ granitsy oval'noĭ zony poliarnykh siianiĭ [Analytical presentation of the equatorial boundary of the oval zone of auroras], 21.9–452
- Vliiania kol'tsevogo toka na polozhenie ovala siianiĭ [The ring current effect on the position of the auroral zone] (*with* **Fel'dshteĭn, Ia. I.**), 21.10–495
- *See also* **Kukushkina, R. S.**, 21.11–518

Starkova, Bela
- Generation of aerosols by condensation of vapors, 21.12–521

Starodubtsev, A. M.
- Dlitel'nye izmereniia radioizlucheniia luny na volne 3.2 cm [Prolonged measurements of the lunar radioradiation at 3.2 cm], 21.8–728

Starotsin, V. M., *see* **Pokrovskiĭ, G. B.**, 21.4–241

Starovatov, A. A.
- Nekotorye osobennosti vysot sloia Es [Certain peculiarities of heights of Es-layer], 21.10–193

Starr, Victor P.
- Pole-to-pole moisture conditions for the IGY (*with* **Peixoto, J. P.** and **McKean, R. G.**), 21.6–535
- Symmetrical formulation of the zonal kinetic energy equation (*with* **Gaut, N. E.**), 21.5–409

Starshov, I. M.
- Opredelenie mikrokolichestva dikhloretana v vozdukhe [Determination of microquantities of dichlorethane in the air] (*with* **Ivanova, G. Ia.**) [and English transl.], 21.3–52

Stasiak, Jadwigs
- Wpływ warunków wodnych na roślinność późnego glacjału i holocenu pólnocnowschodneij Polski [Effect of hydrographic conditions upon vegetation in NE Poland during the Late Glacial and the Holocene], 21.8–525

Stassinopoulos, E. G.
- Parametric angles of trajectory-determined field line intersects predicting the location of artificial auroras, 21.11–538
- World maps of constant B. L. and flux contours, 21.11–300

Staude, Rudolf
- Der Hagelstrum am 6.7.1968 im Kreis Landsberg am Lech [Hail storm of July 6, 1968 in Landsberg am Lech District], 21.12–546

Stearns, Charles R.
- Determining surface roughness and displacement height, 21.12–359
- Surface heat budget of the Pampa de la Joya, Peru, 21.7–315

Stearns, Robert D., *see* **Östlund, H. G.**, 21.5–50

Steblianko, V. A., *see* **Bagrov, N. A.**, 21.8–108

Steblova, R. S.
- O vozmozhnom razogreve ozonosfery v periody proiavleniia solnechnoĭ aktivnosti [Possible heating of the ozonosphere during solar activity] (*with* **Duguzhev, Kh. I.**), 21.11–319

Stechkina, I. B., *see* **Kirsh, A. A.**, 21.12–516

Stecker, F. W.
- The cosmic γ-ray spectrum from secondary particle production in cosmic-ray interactions, 21.10–305
- Equilibrium spectra of secondary cosmic-ray positrons in the galaxy and the

spectrum of cosmic gamma-rays resulting from their annihilation, 21.10–597
Primordial cosmic-ray sources, 21.9–484
Stedman, D. H., *see* **Meyer, J. A.**, 21.11–535
Steele, L. P.
Empirical approach to forecasting grass minimum temperatures and the probability of grass minima below 0°C in eastern England (*with* **Stroud, P. A. J.** and **Virgo, S. E.**), 21.9–90
Steele, Roger L.
Evaluation of ice nuclei sources and their development, 21.11–141
Stefan, Heinz
Wahrscheinlichkeit eines Hochwassers bei asymmetrischer Häufigkeitsverteilung [Probability of flood in the case of asymmetrical frequency distribution], 21.5–766
Stefanov, N. G., *see* **Mamaenko, G. E.**, 21.1–173
Stefanov, Stefan I.
Vŭrkhu niakoi osobenosti na normalniia khod na temperaturata v Bŭlgariia prez proletta i prichinite, koito gi obuslaviat [Some singularities of the normal course of temperature in Bulgaria during spring and the causes that condition them], 21.4–164
Stefánsson, Unnsteinn
Hydrographic conditions off the northeast coast of Iceland in relation to meteorological factors (*with* **Guotmundsson, G.**), 21.3–29
Nitrate–phosphate relationships in the Irminger Sea, 21.3–786
Steffe, Dirl H.
Note on the control of contamination in hail samples collected for trace metal analysis, 21.6–621
Stegall, Gilbert E.
Micro-mini media, 21.9–34
Stehling, Kurt R.
Remote sensing of the oceans, 21.2–691
Stein, F.
Shape of atmospheric particles in Pittsburgh air (*with* **Esmen, N. A.** and **Corn, M.**), 21.5–288
Stein, G.
Der Einfluss von Industrieagbasen aus dem Böhmischen Becken auf die Waldgebiete im oberen Erzgebirge [Effect of industrial waste gases from the Bohemian Basin upon forest areas of the upper Erzgebirge], 21.6–184
Stein, W. A., *see* **Gillett, F. C.**, 21.11–582
Steinberg, H. Leonard
On winds over Lake Michigan, 21.3–603
Steinborn, E.
Tropische Wirbelsturme 1968 über dem Nordatlantik [Tropical hurricanes over the North Atlantic in 1968], 21.2–98
Steinhäusser, Hans
Der Ertrag starker Regenfälle verschiedener Dauer and Haüfigkeit [The amount of heavy rainfall of varying duration and intensity], 21.8–413
Steinhauser, Ferdinand
Über die Beziehungen zwischen den Tagesgängen von Bewölking, Nebelhäufigkeit und Sonnenscheindauer [Relations between the diurnal variations of cloudiness, frequency of fog and duration of sunshine], 21.5–443
Vergleichende Messungen der Luftverschmutzung in verschiedenen Orten Osterreichs [Comparative measurements of air pollution in various Austrian localities], 21.12–263
Witterungsklimatologische Gesichtspunkte zur Beurteilung von Klimakurorten [Weather climatological viewpoints in the evaluation of health resort climate], 21.8–558
Steinhoff, Ernst A.
Importance of the use of extraterrestrial resources to the economy of space flight beyond near-Earth orbit, 21.5–687
Stellmacher, Rita, *see* **Lucke, Otto**, 21.10–263
Stel'makh, F. N.
Izmenchivost' kharakteristik tropopauzy nad SSSR [The variability of the characteristics of the tropopause over the U.S.S.R.], 21.9–144
Stenborg, Thorsten
Channel formation and glacier drainage, 21.8–807
Studies of the internal drainage of glaciers, 21.5–778
Stenflo, J. O., *see* **Bhatnagar, A.**, 21.3–728
Stengel, Robert Frank
Measurement of the atmospheric wind profile, 21.3–191
Stening, R. J.
Assessment of the contributions of various tidal winds to the S_q current system, 21.3–376
Tidal winds and the S_q current system, 21.10–194
Stepanenko, V. D.
Contrasts in radiobrightness temperatures

during observations of clouds and precipitations, 21.9–85R
Several geometric characteristics of clouds and precipitations based on radar observations, 21.9–86R
See also **Pavlov, N. F.**, 21.1–118; **Vinogradov, B. V.**, 21.1–159
Stepanian, A. A., *see* **Pankratov, A. K.**, 21.10–301; **Vladimirskii, B. M.**, 21.9–235
Stepanian, N. N.
Spektroskopicheskoe issledovanie khromosfernoi vspyshki 2 sentiabria 1966 g. [Spectroscopic investigation of a chromospheric flare on September 2, 1966], 21.12–628
Stepanov, B. M., *see* **Arsenin, V. Ia.**, 21.3–343
Stepanov, G. V., *see* **Sarkisov, S. L.**, 21.11–373
Stepanov, I. N.
Genesis of the soils of Central Asia in relation to hydrothermal conditions [Transl. from Russian], 21.4–179
Stepanov, N. D.
K raschetam srednego oblastnogo urozhaia kartofelia [Calculations of the mean region potato yield], 21.12–178
Stepanov, V. N.
Tsirkuliatsiia vod v meridional'noĭ ploskosti okeanov [Water circulation on the meridional plane of the oceans] [and English transl.], 21.4–699
Stepanova, A. I.
Stok nanosov rek Primorskogo kraia [Runoff of alluvium in rivers of the Maritime Territory], 21.2–595
Stephens, Edgar R.
Atmospheric photochemical reactions in a tube, flow reactor (*with* **Price, M. A.**), 21.8–148
Distribution of light hydrocarbons in ambient air (*with* **Burleson, F. R.**), 21.12–264
Formation, reactions, and properties of peroxyacyl nitrates (PANs) in photochemical air pollution, 21.12–265
See also **Schuck, Edward A.**, 21.12–257
Stephens, K., *see* **Anderson, G. C.**, 21.3–784
Stephens, N. T., *see* **McCaldin, R. O.**, 21.5–270
Stephenson, G. R.
Digitized physical data of a rangeland watershed (*with* **England, C. B.**), 21.8–795
Stephenson, Judith J.
Computer routines for synthesizing ground backscatter from three-dimensional raysets (*with* **Georges, T. M.**), 21.3–377
Stepkin, V. S., *see* **Kmito, A. A.**, 21.11–14R
Sterling, D. L.
Influence of electromagnetic drifts and neutral air winds on some features of the F2-region (*with others*), 21.7–204
Stern, Melvin E.
Salt fingers and convecting layers (*with* **Turner, J. S.**), 21.9–714
Sternberg, R. W.
Camera and dye-pulser system to measure bottom boundary-layer flow in the deep sea, 21.9–724
Coasts: a primer (*with* **Creager, J. S.**), 21.10–830
Sternzat, M. S.
Development of meteorological instruments, 21.9–87R
Opredelenie temperatury vozdukha nad vzletno-posadochnoĭ polosoĭ (VPP) [The determination of air temperature over runways], 21.8–312
Stetter, G.
Ice fern patterns produced in the open air, 21.12–543
Influence of the atmospheric aerosol on the measurement of carbon dioxide: the effect of the electric fields, 21.12–212
Stevens, J. H.
Arid zone agricultural development in the Trucial States, 21.6–682
Stevens, R. G., *see* **Smith, S. D.**, 21.2–733
Stevenson, Catherine M.
Analysis of the chemical composition of rainwater and air over the British Isles and Eire for the years 1959–1964, 21.1–282
Dust fall and severe storms of July 1, 1968, 21.4–229
Improved Millipore filter technique for measuring the concentrations of freezing nuclei in the atmosphere, 21.1–206
Stevenson, Merritt
Circulation in the Panama Bight, 21.5–795
See also **Miller, F.**, 21.4–2
Stevenson, Robert E.
Ocean and its atmosphere as seen from Gemini spacecraft, 21.6–69
Stewart, A. I., *see* **Dalgarno, A.**, 21.1–446; **Rees, M. H.**, 21.8–657
Stewart, E. H.
Evapotranspiration as affected by plant density and water-table depth (*with* **Browning, J. E.** and **Burt, E. O.**), 21.8–353

Stewart, George Alan, *see* **Symposium on Land Evaluation, Canberra, 1968,** 21.1–34

Stewart, Harris B., Jr.
  Great place to visit, 21.2–687

Stewart, John W.
  Total solar eclipse of March 7, 1970, 21.2–510

Stewart, K. H.
  Development of rocket and satellite experiments at Kew Observatory, 1959–1961, 21.3–138

Stewart, Richard W.
  Air–sea interaction from the small scale, 21.12–12R
  Solar cycle variation of exospheric temperatures on Mars and Venus (*with* **Hogan, J. S.**), 21.6–702
  Some statistical properties of small scale turbulence in an atmospheric boundary layer (*with others*), 21.11–240
  Turbulence and waves in a stratified atmosphere, 21.10–224

Stewart, Robert L.
  Polyethylene oil tubes for stilling wells, 21.10–692

Stewart, Robert W. (ed.), *see* **Progress in Oceanography, Oxford, England,** 21.10–789

Stezhenskaia, I. N.
  Sroki nastupleniia i prodolzhitel'nost' gidrologicheskikh sezonov na rekakh Zapadno-Sibirskoĭ ravniny (s ploshchad'iu vodosbora menee 100 tys. km²) [Period of onset and duration of hydrologic seasons for rivers of the West Siberian plain (with water catchment areas not less than 100 × 10³ km²)], 21.9–349

Stickle, Joseph W., *see* **Melfi, Samuel H.,** 21.7–40

Stickney, Alden P.
  Supersaturation of atmospheric gases in the coastal waters of the Gulf of Maine, 21.2–721

Stiller, S., *see* **Israël, Hans,** 21.12–66

Stinson, J. Robert, *see* **Kahan, A. M.,** 21.1–268

Stix, Erika
  Schwankungen des Pollen- und Sporengehaltes der Luft [Fluctuations of the pollen and spore content of the atmosphere], 21.5–289

Stober, Manfred
  Höhenveränderungen des grönländischen Inlandeises zwischen 1959 und 1968 [Altitude changes of the Greenland inland ice between 1959 and 1968], 21.11–745

Stoddart, D. R.
  Climatic geomorphology, 21.1–659
  Retrospect and prospect of Aldabra research, 21.3–762

Stoenescu, Mihai Ş.
  Frecvenţa zilelor tropicale po teritoriu Republicii Socialiste România [Frequency of tropical days in Rumania] (*with* **Tepeş E.**), 21.6–443

Stoenescu, St. M.
  Fluctuaţiile cronologice ale cantităţilor de precipitaţii atmosferice din partea sudică a teritoriului Republicii Socialiste România [Time fluctuations of mass precipitation in the southern end of the Socialist Republic of Rumania] (*with others*), 21.5–620
  Oscilaţiile diurne ale temperaturii aerului în lunile de vară, la Bucureşti [Diurnal fluctuations of air temperatures in the summer months in Bucharest] (*with* **Dincă, I.**), 21.3–555

Stoffregen, W.
  Transient emissions on the wavelength of helium I, 5876 Å recorded during auroral break-up, 21.11–539

Stohl, J.
  Seasonal variation in the radiant distribution of meteors, 21.11–604

Stoian, Rodica
  Eficienţa hărţilor TA 500 mb obţinute prin integrări numerice la calculatorul electronic în diferite condiţii ale circulaţiei aerului [Efficiency of 500-mb charts derived from numerical integrations by electronic computer for various air-flow patterns] (*with others*), 21.3–217
  See also **Beşleagă, N.,** 21.3–228; 21.5–158

Stoica, C., *see* **Struţu, M.,** 21.3–453

Stokke, Egil B.
  Semidiurnal oscillation in a thermalgeostrophic atmosphere, 21.1–312

Stolarik, John D., *see* **Wescott, Eugene M.,** 21.8–613

Stolarski, R. S., *see* **Walker, James C. G.,** 21.12–282

Stolzy, L. H., *see* **Yu, Peter T.,** 21.7–660

Stomfai, Róbert, *see* **Aczél, E.,** 21.5–726

Stommel, Henry, *see* **Schroeder, Elizabeth,** 21.10–815

Stone, A. Harris
  The winds of weather, 21.8–329

Stone, Hugh, *see* **Manabe, Syukuro,** 21.11–251

Stone, Julian
  Brillouin scattering by seawater (*with* **Pochapsky, T. E.**), 21.9–686

Stone, Peter H.
Concerning the existence of Taylor columns in atmospheres (*with* **Baker, D. J., Jr.**), 21.1–362
On non-geostrophic baroclinic stability, Pt. 2, 21.11–226
Preliminary results of experiments with symmetric baroclinic instabilities (*with others*), 21.6–316

Stone, Robert G.
Measurements in the ionosphere of the aspect dependence of antenna reactance, Pt. 1 (*with* **Fainberg, J.** and **Alexander, J. K.**), 21.3–378
Radioastronomy from space, 21.10–580
Satellite observations of solar radio bursts (*with others*), 21.4–453
See also **Alexander, J. K.**, 21.4–440

Stoner, J. D.
Comparison of results using three sampling techniques for a fluorometric dye study in a stream, 21.10–751

Stoner, John O., Jr.
Modifying lunar atmosphere, 21.9–492

Stoner, Ronald R., *see* **Maynard, Harry W.**, 21.3–606; 21.12–25

Stoner, Russell B.
The light fantastic, 21.11–36

Storebö, Per B.
Thunderstorm as an electrical generator, 21.6–678

Storr, D.
Meteorology in watershed research in Alberta, 21.9–338

Stow, C. D.
Dust and sand storm electrification, 21.3–696
On the prevention of lightning, 21.3–302

Stozhkov, Iu. I.
11-letniaia moduliatsiia intensivnosti kosmicheskikh luchei i gelioshirotnoe raspredelenie piaten [11-year modulation of cosmic-ray intensity and heliolatitudinal distribution of spots] (*with* **Charakhch'ian, T. N.**), 21.9–236

Straede, John
Meteorological programming system, 21.5–176
See also **Jenssen, D.**, 21.5–162

Strahl, Joseph A., *see* **Richards, Marshall M.**, 21.9–603

Strahler, Arthur Newell
Introduction to physical geography, 21.10–48R
Physical geography, 21.11–16

Strain, B. R.
Seasonal adaptations in photosynthesis and respiration in four desert shrubs growing *in situ*, 21.11–476
See also **Cunningham, G. L.**, 21.10–458

Strand, Roger Francis
Light scattering constants in a water cloud, 21.6–377
See also **Zdunkowski, W. G.**, 21.5–453

Strangeways, I. C., *see* **McCulloch, J. S. G.**, 21.9–67

Stranz, Dietrich, *see* **Huss, E.**, 21.3–601

Strauch, Edward
Warunki propagacji fal ultrakrótkich w atmosferze (na podstawie radiosondaży meteorologicznych w Legionowie) [Conditions of ultrashort radiowave propagation in the atmosphere (determined on the base of radiosonde measurements in Legionwo)], 21.7–217

Straus, H.
Probleme de biometeorologie în studiile igienico-sanitare asupra impurifičariii atmosferei comunale [Problems of biometeorology carried by studies on health and hygiene focusing township air pollution], 21.5–290

Strauss, Federico M.
Relation of sudden frequency deviations to the spectrum and other characteristics of solar microwave bursts (*with* **Papagiannis, M. D.** and **Aarons, J.**), 21.4–454

Strauss, Werner
Report on the Third Clean Air Conference, 21.8–149

Streett, William B.
Phase equilibria in planetary atmospheres, 21.6–712

Strelkov, A. S., *see* **Karpov, O. N.**, 21.8–279

Strelkov, G. M.
Parnikovyĭ effekt v atmosfere Venery [Hothouse effect in the Venutian atmosphere] (*with* **Kuzharskaia, N. F.**) [and English transl.], 21.2–442
Radiation of Venus near λ 1.35 cm [Transl. from Russian], 21.4–461

Střeštík, Jaroslav
Comparison of data on geomagnetic pulsations recorded by various instruments, 21.5–728

Streten, N. A.
Aspects of the frequency of calms in Antarctica, 21.1–513
Note on multiple image photo-mosaics for the Southern Hemisphere, 21.3–164
See also **Wendler, G.**, 21.10–775

Strickland, A. C. (ed.), *see* **International Years of the Quiet Sun, 1964–1965,** 21.7–700

Strickland, J. I.
  Slant path microwave attenuation due to precipitation (*with* **McCormick, K. S.**), 21.9–300

Strickler, Robert C.
  Final Report [on] Test and evaluation of the video integrator and processor, 21.8–74

Strickler, R. F., *see* **Miyakoda, K.,** 21.6–297

Stringer, E. T.
  Use of cost/benefit studies in the interpretation of probability forecasts for agriculture and industry: an operational example, 21.8–671

Stringfield, V. T.
  Hydrology of carbonate rock terranes: a review with special reference to the United States, Pt. 1 (*with* **LeGrand, H. E.**), 21.10–731
  Relation of sea water to fresh water in carbonate rocks in coastal areas with special reference to Florida, U.S.A. and Cephalonia (Kephallinia), Greece (*with* **LeGrand, H. E.**), 21.10–733

Strizhevskiĭ, L. N.
  O fil'tratsii poleĭ, poluchennykh v rezul'tate nelineĭnykh preobrazovaniĭ iskhodnykh znacheniĭ meteorologicheskikh elementov [Filtration of fields obtained as a result of nonlinear transformation of original values of meteorological elements], 21.1–227
  See also **Belousov, S. L.,** 21.5–155

Strochnetter, F. G.
  Tropical Cyclone "Colleen," 21.10–250

Stroebel, Darrell F.
  Photochemistry of methane in the Jovian atmosphere, 21.6–713

Strohbehn, J. W.
  The feasibility of laser experiments for measuring the permittivity spectrum of the turbulent atmosphere, 21.10–322
  Line-of-sight microwave propagation, 21.6–37

Strojie, William F.
  Notes on Elko County (Nevada) weather, 21.2–260

Strokina, L. A.
  Izmenenie teplosoderzhaniia okeanov Iuzhnogo Polushariia [Changes of the heat content of oceans in the Southern Hemisphere], 21.12–737
  Sviaz' izmeneniia teplosoderzhaniia de
tel'nogo sloia Severnoĭ Atlantiki
izmenenie temperatury vody na pove
khnosti [Heat content of the act
layer of the North Atlantic and t
change of the surface temperatu
(*with* **Smirnova, A. I.**) [and Engl
transl.], 21.4–668
  See also **Bortkovskii, R. S.,** 21.9–15R

Stromberg, I. M., *see* **Hutchinson, W.**
A., 21.7–65

Strommen, Norton D.
  Michigan snow depths, 21.1–631

Strong, A. E.
  [Comments on] **S. Gathman** and **E**
Mae Trent: Space charge over the op
ocean and [Reply by] **Gathman a**
Trent, 21.2–356
  Sea–state measurements from satelli
(*with* **McClain, E. P.**), 21.4–740

Strong, I. B.
  Observations of the solar wind, bow sho
and magnetosheath by the Vela sat
lites, 21.7–385

Strong, James P., III
  Optical simulation of a radio–astrono
interferometer experiment, 21.3–717

Strong, John
  Environmental mean radiation temperatu
meter (*with* **Hopkins, G. W., II**
21.11–85

Stroud, P. A. J., *see* **Steele, L. P.,** 21.9–

Strüning, J. O.
  Investigations on the atmospheric circ
lation above Africa (*with* **Flohn, H.**
21.5–410

Struțu, Margareta
  Considerații preliminare asupra preveder
aspectului termic pentru anotimpul re
prin metoda Dragoițev [Tentative co
siderations on how to predict the co
season's thermal aspect by Dragoĭtev
method] (*with others*), 21.5–188
  O metodă practică de analiză aerosinopti
a ciclonilor cu evoluție retrogradă [
practical way leading to a weath
synoptic analysis of cyclones havi
retrogressive movement] (*with* **Stoic**
C.), 21.3–453
  See also **Militaru, F.,** 21.6–614

Stuart, David
  From Maine to Mokuoloe, 21.2–793

Stuart, G. F.
  Distribution of irregularities in the An
arctic ionosphere, Pt. 2 (*with* **Tith**
ridge, J. E.), 21.3–379

Stubbe, Peter
Temperature dependence of the rate constants for the reactions $O^+ + O_2 \rightarrow O_2^+ + O$ and $O^+ + N_2 \rightarrow NO^+ + N$, 21.3–380

Stuchlik, František
Ergebnisse von langjährigen Beobachtungsreihen und die Möglichkeit der Feststellung charakteristischer Besonderheiten in bezug auf den elfjährigen Sonnenfleckenzyklus [Results of long-term, serial observations and the possibility of determining characteristic peculiarities with regard to the 11-year sunspot cycle], 21.7–702

Studer, Thomas A.
Air Weather Service and weather modification, 21.7–114

Stulik, R. S.
Hydrologic conditions in the Gila Bend Basin, Maricopa County, Arizona (*with* **Moosburner, O.**), 21.4–531

Stuntz, Warren E., *see* **Magnuson, John J.**, 21.10–687

Stupczewski, Witold
Ocean charakterystyk statystycznych pewnego zjawiska przy wykorzystaniu informacji, zawartych w observacjach innych polrewnych mu zjawisk, Czesc I [Estimate of the statistical characteristics of some events on ground of the information gained from observations of other correlated phenomena], 21.3–47

Sturrock, Peter A.
Development of a theory of solar flares, 21.10–661
Model of solar flares, 21.2–492

Styro, D. B., *see* **Ashcheulov, S. V.**, 21.2–126; 21.10–3R, –5R, –6R

Suarez S., Jose
Clasificación climatica de una zona central Colombiana (Caldas, Risaralda, Quindio) [Climatic classification of a central Colombian Zone (Caldas, Risaralda, Quindio)] (*with* **Gomez, G. L.**), 21.8–529

Subba Ramu, M. C.
Investigations on radioactive equilibrium in the lower atmosphere between radon and its short-lived decay products (*with* **Vohra, K. G.**), 21.4–80
See also **Vohra, K. G.**, 21.9–287

Subba Rao, M. C., *see* **Das, P.**, 21.1–540

Subbaraya, B. H., *see* **Prakash, Satya**, 21.10–181

Subbotin, A. I.
Nekotorye osobennosti stoka dozhdevykh vod v usloviiakh lesnoi zony Evropeiskoi territorii SSSR [Some characteristics of rain water runoff in forested zones of the European U.S.S.R.], 21.8–457

Sŭbev, Liuben
Otnosno nomogramite za opredeliane obezpechenostta pri klimatichnite pokazateli po danni za tekhnite normalni stoĭnosti [The nomograms for determining the reliability of climatic indices by data for their normal values] (*with* **Sŭbeva, M.**), 21.6–644

Sŭbeva, Mikhaila, *see* **Sŭbev, L.**, 21.6–644

Subrahmanyam, V. P.
Some aspects of drought climatology of the dry subhumid zone of South India (*with* **Sastri, C. V. S.**), 21.9–321

Suchannek, Rudolf G., *see* **Ohtake, Takeshi**, 21.11–509

Sudan, R. N., *see* **Kuckes, A. F.**, 21.4–449

Sudo, Hideo
Attempt to estimate the vertical component of the current velocity in the south off the main island of Japan on the basis of heat conservation, 21.4–723

Süssenberger, E.
Centenary of the Deutsche Seewarte, 21.1–76
Economic benefits of the Meteorological Service of the Federal Republic of Germany: a preliminary study, 21.1–77

Suetova, I. A.
Osnovnye morfometricheskie kharakteristiki Antarktidy [Basic morphometric characteristics of Antarctica], 21.4–610

Suga, Hiroshi, *see* **Sugisaki, M.**, 21.6–814

Sugawara, M.
The flood forecasting by a series storage type model, 21.9–605

Sugg, Arnold L.
The hurricane season of 1969 (*with* **Pardue, L. G.**), 21.9–245R
Mean storm surge profile, 21.9–735

Sugimoto, Takashige, *see* **Higuchi, Haruo**, 21.12–760, –761

Sugimura, Yukio, *see* **Miyake, Y.**, 21.4–43, –688; 21.12–346

Sugisaki, Masayasu
Calorimetric study of glass transition of the amorphous ice and of the phase transformation between the cubic and the hexagonal ices (*with* **Suga, H.** and **Seki, S.**), 21.6–814

Sugiura, M.
Improved model equatorial electrojet with a meridional current system (*with* **Poros, D. J.**), 21.11–211

Sugiura, Yoshio
Distribution of AOU in the surface waters of Kuroshio and Oyashio and its oceanographical significance: the delay of gas exchange between air and sea, 21.10–803
Distribution of pH in the Kuroshio and the Oyashio regions and its oceanographical significance, 21.10–802
Relationship between phosphate and oxygen concentrations in the up-welling waters and its oceanographical significance, 21.9–704
Sukanto, M.
Climate of Indonesia, 21.8–510
Sukhachev, A. T., *see* **Zavadovskiĭ, V. M.**, 21.9–65
Sukhishvili, E. V., *see* **Anapol'skaia, L. E.**, 21.4–212
Sula, E. V.
K obshcheĭ teorii elektrostaticheskogo fliuksmetra [A general theory for an electrostatic flux meter], 21.7–67
Sulakvelidze, Georgii Konstantinovich
Aktivnye vozdeistviia na atmosfernye protsessy [Modification of atmospheric processes] (*with* **Petrosiants, M. A.**), 21.12–181
Izmerenie intensivnosti osadkov mnogovolnovym radiolokatorom [Measurement of precipitation intensity by multiwave radar] (*with* **Dadali, Iu. A.**), 21.1–610
Obzor rabot po vozdeĭstviiu na gradovye protsessy [A survey of studies on the control of hail processes] (*with* **Lapcheva, V. F.**), 21.11–151
On the principles of hail control method applying in the U.S.S.R., 21.7–125
Raboty VGI po indikatsii gradovykh ochagov [Work of the Mountain Geophysical Institute on the indication of hail centers], 21.1–637
Rainstorms and hail, 21.9–88R
See also **Giharev, A. S.**, 21.12–191; **Movchan, B. N.**, 21.11–53R
Sulakvelidze, Ia. G.
Issledovanie taianiia gradin pri razlichnoĭ temperature i vlazhnosti [Study on the melting of hailstones at various temperatures and humidities], 21.11–420
Sulev, M., *see* **Mullamaa, Iu. A. R.**, 21.12–419
Sullivan, William T.
MBAS and LAS surfactants in the Illinois River, 1968 (*with* **Swisher, R. D.**), 21.2–599
Summer, E. J.
Collection through the telecommunication system and central processing of climatological data, 21.10–98
Summers, Audrey L., *see* **Spreiter, Joh R.**, 21.12–432
Summers, Hugh P., *see* **Burgess, A.**, 21.5–719
Summersby, W. D.
Distribution of precipitation and the variation of visibility in precipitation, 21.6–606
Sumner, C. J.
Barograph for recording in high altitude 21.10–75
Sun-tracking radiation instrument stan (*with* **Patterson, G.**), 21.9–53
Sundaram, A. K.
Hydromagnetic radiation from electri and magnetic dipoles in the magnetosphere, 21.10–548
Sundararajan, R., *see* **Gokhale, G. S.**, 21.3–536
Sundqvist, Hilding
Simple finite-difference grid with non-constant intervals (*with* **Veronis, G.**), 21.12–135
Sunjata, M. H., *see* **Karjoto, —**, 21.6–57
Suprunov, U. G., *see* **Zimont, I. L.**, 21.8–480
Surazhskiĭ, D. Ia.
Priblizhennoe analiticheskoe i mashinnoe resheniia uravneniia dvizheniia vrashchaiushchegosia vetropriemnika anemometra v garmonicheskom pul'siruiushchem potoke [Approximate analytical and computer solution of the equation of motion of a rotating cup anemometer in a harmonically pulsating current], (*with* **Kharitonov, V. P.**), 21.3–194
See also **Torochkov, V. Iu.**, 21.5–126; 21.9–64
Surinam. Meteorologische Dienst
Het weer in 1968 [The weather in 1968], 21.10–122R
Surmach, G. P.
Influence of fall plowing of light-chestnut soils on runoff, erosion, and yield (*with* **Barabanov, A. T.**), 21.9–340
Surnachev, N. V.
Avtomaticheskoe tsifrovoe ustroistvo dlia perforatsii dannykh sistemy zondirovaniia atmosfery [An automatic digital instrument for data punching in an atmospheric probing system] (*with* **Trifonov, G. P.**), 21.12–32

Surtees, W. J.
A ray-tracing study of direction of arrival variations through a traveling ionospheric disturbance, 21.9–183
Suryanarayana, R., *see* **Shukla, J.**, 21.6–143
Suschny, O.
Measurement of atmospheric radioactivity, 21.6–119
Sushchinskiĭ, B. L.
Zhidkostnyĭ termokriostat dlia poverki termometrov soprotivleniia [A liquid thermocryostat for testing resistance thermometers] (*with* **Tikhmianov, G. G.**), 21.9–59
Sushkevich, T. A., *see* **Germogenova, T. A.**, 21.7–346
Suskova, V. B., *see* **Lebedinets, V. N.**, 21.10–637
Suslov, A. K., *see* **Osherovich, A. L.**, 21.10–35R
Suslova, L. V.
Raschet sredneĭ temperature vody i templozapasov Novosibirskogo vodokhranilishcha [Calculation of mean water temperature and heat supply in the Novosibirsk Reservoir], 21.3–570
Susts, A. B., *see* **Alexander, G. N.**, 21.8–405, –406
Sutcliffe, J. V.
Assessment of runoff from a mountainous and semi-arid area in western Iran (*with* **Carpenter, T. G.**), 21.2–539
Sutkoff, J. D., *see* **Anderson, B. J.**, 21.1–557
Sutton, D. W.
Unexpected deterioration in weather conditions in a north-westerly air-stream at Bruggen, northwest Germany on June 28, 1966, 21.10–117
Suziumova, G. N.
Radiatsionnye kharakteristiki vazhneĭshikh klassov mestnoĭ pogody v Arktike [Solar characteristics of the main classes of local weather in the Arctic], 21.5–433
Suzuki, Eiichi
Discrimination theory based on categorical variables and its application to meteorological problems, 21.5–184
Secular variations of the rainfall in Japan, 21.9–315
Suzuki, Otoichirō
Upper wind distribution of local depressions that appeared in Suruga Bay, 21.10–85R
Suzuki, S.
On the existence of ice in Fuketsu (wind cave) in the hottest season, 21.11–328
Suzuki, Toshio, *see* **Sotobayashi, T.**, 21.6–261
Suzuki, Yoshio, *see* **Kusano, Kazuo**, 21.10–81R
Svanidze, G. G.
K voprosu ob izmenenii statisticheskikh parametrov rechnogo stoka pri razlichnoi razrezke gidrografa na uchastki s godovymi intervalami osredneniia [Problem of change of statistical parameters in river runoff when the hydrograph is differently cut into sections with annual intervals of averaging] (*with others*), 21.12–676
O vliianii nachala gidrologicheskogo goda na znacheniia statisticheskikh parametrov stoka i potrebnoĭ emkosti vodokhranilishcha [The effect of beginning of a hydrological year upon the values of statistical parameters of flow and required capacity of reservoir] (*with* **Kilasoniia, A. N.**), 21.2–613
Svensson, Harald
Type of circular lakes in northernmost Norway, 21.4–327
Švestka, Z.
Loop-prominence systems and proton-flare active regions, 21.1–704
Mass motions in flares indicated by line profiles and filtergrams, 21.1–705
Optical flare, 21.11–639
Proton Flare Project: introduction and summary, 21.11–641
Proton Flare Project, 1966: summary of the August/September particle events in the McMath region 8461 (*with* **Simon, P.**), 21.11–640
Swain, A. M., *see* **Anderson, R. C.**, 21.3–505
Swallow, A. J.
Hydrated electrons in seawater, 21.3–791
Swallow, J. C.
Recent physical oceanographic work in the Indian Ocean, 21.12–13R
Swant, J. S., *see* **Breene, R. G., Jr.**, 21.1–419
Swarner, W. G.
Optical spatial filter for achieving wide dynamic range in air-to-water optical transmission, 21.10–805
Swarup, G.
Some properties of the sources of slowly varying components and of bursts at 612 Mc/s (*with others*), 21.4–455
Swecker, Milton N., *see* **Beverage, J. P.**, 21.6–785

Sweers, H. E.
Structure, dynamics and chemistry of Lake Ontario, 21.4–603
Three statistical programs to process limnological data, 21.12–713
Sweet, P. A.
Mechanisms of solar flares, 21.9–544
Sweigart, Allen V., *see* **Jenkins, Edward B.**, 21.11–576
Swenson, G. W., Jr.
Interferometer in radio astronomy (*with* **Mathur, N. C.**), 21.8–718
Synthetic-aperture radio telescopes, 21.4–22
Swenson, Gary R.
Temperature shape parameter of the thermosphere determined from probe data, 21.3–563
See also **Weidner, D. K.**, 21.3–359
Swensson, J. W.
[Comments on] **Jean Pierre Swings**: Forbidden sulfur I lines in the solar spectrum, 21.10–670
Swider, William, Jr.
Ionization rates due to the attenuation of 1–100 Å nonflare solar X-rays in the terrestrial atmosphere, 21.12–310
Upper atmospheric emission processes, 21.7–361
See also **Keneshea, T. J.**, 21.7–192
Swift, David L.
Properties of aerosols produced by evaporation from a hot wire, 21.12–508
Swihart, Thomas L., *see* **Margrave, Thomas E., Jr.**, 21.9–524
Swinbank, W. C.
Comparison between predictions of dimensional analysis for the constant-flux layer and observations in unstable conditions, 21.1–499
Dimensional analysis of the constant-flux layer, 21.2–228
Structure of wind and the shearing stress in the planetary boundary layer, 21.10–338
Swingle, Donald M.
Army's Automatic Meteorological System, 21.7–55
Swinnerton, J. W.
Distribution of methane and carbon monoxide between the atmosphere and natural waters (*with* **Linnenbom, V. J.** and **Cheek, C. H.**), 21.5–231
The ocean: a natural source of carbon monoxide (*with others*), 21.12–224
Swinson, Derek B.
"Sidereal" cosmic-ray diurnal variations, 21.7–422
Swisher, R. D., *see* **Sullivan, W. T.**, 21.2–599
Swisher, Searle D.
Shift supervisors' introduction to practical local meteorology, 21.7–223
Swithinbank, Charles
Giant icebergs in the Weddell Sea, 1967–1968, 21.2–634
Switzerland. Meteorologische Zentralanstalt
Annalen [Yearbook], 21.3–102; 21.11–78R
Syck, James M.
Current meter measurements off Point Vicente, California, November 1968, 21.12–767
Syiko, A. A.
K voprosu ob izmerenii vektora vetra [The problem of measuring the wind vector], 21.9–66
Symonds, M. D., *see* **Hewish, A.**, 21.2–141
Symposium on Acoustic-Gravity Waves in the Atmosphere, Boulder, Colo., July 15–17, 1968
Proceedings, 21.5–683
Symposium on Analogue and Digital Computers in Hydrology, Tucson, Dec. 9–15, 1968
Summary of Proceedings, 21.3–736
Symposium on Clear Air Turbulence and Its Detection, Seattle, Wash.
Clear air turbulence and its detection: Proceedings of a Symposium, 21.10–328
Symposium on Data Processing for Climatological Purposes, Asheville, N.C., May 13–18, 1968
Data Processing for Climatological Purposes: Proceedings of the Symposium, 21.9–20
Symposium on Investigations and Resources of the Caribbean Sea and Adjacent Regions, Willemstad, Curaçao, Nov. 18–26, 1968
Report and abstracts of papers, 21.12–738
Symposium on Land Evaluation, Canberra, 1968
Land evaluation. Papers of a CSIRO Symposium, organized in cooperation with UNESCO, Aug. 26–31, 21.1–34
Symposium on Laser Propagation in the Atmosphere, Earnborough, England, July 17, 1968
Abstracts of papers, 21.1–106
Symposium on Numerical Weather Prediction, Tokyo, Nov. 26–Dec. 4, 1968

Proceedings of the WMO/IUGG Symposium, 21.5–177

Symposium on Remote Sensing in the Polar Regions, Easton, Md., 1968

Highlights of the Symposium, 21.8–17

Symposium on Remote Sensing of Environment, 6th, Univ. of Mich., Ann Arbor, Oct. 13–16, 1969

Proceedings, 21.10–71

Symposium on Space and Radiocommunication, Paris, June 1969

Proceedings, 21.9–465

Symposium on the Oceanography and Fisheries Resources of the Tropical Atlantic, Abidjan, Ivory Coast, Oct. 20–28, 1966

Proceedings, 21.3–763

Symposium on Turbulence, Seattle, Wash., June 23–27, 1969

Abstracts of papers, 21.5–389

Syòyama, T., *see* **Kusano, K.**, 21.6–471

Syrovatskiĭ, S. I.

Oscillatory convection in strong magnetic fields and origin of active regions (*with* **Zhugzhda, Iu. D.**), 21.2–475

See also **Ginzburg, V. L.**, 21.10–296

Sysoe, N. N. (ed.), *see* **Akademiia Nauk SSSR. Institut Okeanologii**, 21.10–1R

Sytinskaia, N. N.

Some notions re the aerosol component of the Martian atmosphere, 21.11–28R

Szachta, F. D.

Sensitive radio receiver for ionospheric measurements (*with* **Houston, R. E., Jr.** and **Larson, L. E.**), 21.2–26

Szalay, Gabriella

A konvektív aktivitás hatása a meteorológai elemekre a Balaton térségében [Influence of convective activity on meteorological elements in vicinity of the Lake Balaton], 21.3–450

See also **Balogh, Z.**, 21.3–482

Szeicz, G.

Surface resistance of crop canopies (*with* **Long, I. F.**), 21.5–569

Szepesi, Dezsö

Die Bestimmung des Windprofils der unteren Luftschicht von 300 m durch Pilotballoonmessungen [Obtaining the 300 m low-level wind profile by pilot balloon], 21.6–506

Grafikus módszer a gázemisszió megengedheto mértékének meghatározásara [Graphical method for determining the allowable rate of gas emission], 21.10–145

Szesztay, K., *see* **Hegedűs, M.**, 21.8–443

Szillinsky, Albrecht

Numerical experiments simulating the penetration of a two-cell vortex into the boundary layer, 21.4–111; 21.11–227

See also **Wippermann, F.**, 21.4–112

Szkielda, Karl Heinz

Chemisches Modell für den Auf- und Abbau organischen Materials und dessen Anwendung in der offenen See [Chemical model of the production and destruction of organic material and its application in the open sea], 21.4–669

Szuwalski, Andre

Littoral environment observation program in California: preliminary report, Feb.–Dec. 1968, 21.11–38R

T

TELCOM, Inc., McLean, Va.

Geostationary Operational Environmental Satellite (GOES) data collection system, 21.8–50

Tabakova, S. A.

Eksperimental'nye dannye k gigienicheskomu normirovaniiu khlorofosa v atmosfernom vozdukhe [Experimental data for hygienic standardization of chlorophose in the atmosphere], 21.8–150

Tabata, Isao, *see* **Naito, K.**, 21.3–92

Taborsky, Zdenek

Prispevek k Faustove metode pro predpoved bourek [Contribution to Faust's method for predicting thunderstorms], 21.12–154

Tachinaka, Hiroko, *see* **Yukutake, T.**, 21.1–680

Tackabery, Richard E.

Deep ocean STD measurements, 21.4–646

Tademaru, E.

Plasma instabilities of streaming cosmic rays, 21.11–565

Tadmor, J.

Analytical expressions for the vertical and lateral dispersion coefficients in atmospheric diffusion (*with* **Gur, Y.**), 21.8–222

Tadmor, N. H.

Runoff inducement in an arid region by removal of vegetation (*with* **Shanan, L.**), 21.5–648

See also **Shanna, L.**, 21.4–394

Tadzhiyev, U.

Forms of salinization of irrigated lands in the Parkharsk region of Tadzhik S.S.R. [Transl. from Russian], 21.4–398

Tänczer, Tibor
Evaluation of cloud sizes on satellite (APT) pictures, 21.5–53

Taffe, William J.
Hydromagnetic effects on atmospheric tides, 21.8–202
Variation of the upper atmospheric scale height and its effect on atmospheric tidal wavelengths, 21.4–57

Tag, Paul M.
Surface temperatures in an urban environment, 21.10–308

Tagaĭmurdov, Iu. T., *see* **Dobryshman, E. M.**, 21.6–136

Taggert, W. J.
Variations in the marginal value of agricultural labor due to weather factors, 21.8–672

Tagliaferri, G. L., *see* **Barletti, R.**, 21.2–133; **Monsignori Fossi, B. C.**, 21.10–674

Taieb, C.
Preliminary results of comparison between Thomson scatter and topside sounder measurements, 21.10–195

Tait, G. W. C.
Rise of buoyant gases released from intermittent sources, 21.4–208

Takagi, Jinzaburo
Cosmic-ray muon-induced iron 59 in cobalt (*with* **Tanaka, S.**), 21.7–423

Takagi, Masumi
VHF radiation from ground discharges, 21.9–461
See also **Ishikawa, H.**, 21.10–56

Takahashi, K.
9-year periodicity in the meteorological phenomena, 21.8–521

Takahashi, Tadao
Note on the annual heat exchange across the air–sea boundary surface, 21.4–160

Takahashi, Tsutomu
Electric charge generation by the breaking of frost under a temperature gradient, 21.8–648
Electric potential of a rubbed ice surface, 21.8–649
Electric potential of liquid water on an ice surface, 21.5–679
Measurement of electric charge on precipitation elements in cloud by means of radiosonde, 21.8–614
Surface measurements of the electrical properties of warm clouds over the sea (*with* **Uchida, R.** and **Fullerton, C. M.**), 21.8–654
Thermoelectric properties under the influence of impurity concentration in ice single crystals, 21.9–325

Takahashi, Yoshihiko
Supplementary report on the soot method for observing ice nuclei in air, 21.12–114

Takakura, Tatsuo
Flare-associated radio bursts, 21.10–583

Takano, Bokuichiro
Barium and lead content of Tamagawa Hot Spring waters, Akita, 21.5–759

Takasao, Takuma
Study on long-range runoff system based on information theory (*with* **Ikebuchi, S.**), 21.11–690
See also **Ishihara, Tojiro**, 21.11–719

Takasugi, M.
Seasonal variation of the anticyclone over southern Asia and Bai-u in Japan (*with* **Ikeda, H.**), 21.7–309

Takeda, Takao
Numerical simulation of large convective clouds, 21.10–375

Takei, Hisanori, *see* **Kusano, Kazuo**, 21.10–81R

Takeuchi, T.
Some observations on charge generation in thunderclouds (*with* **Mühleisen, R.** and **Fischer, H. J.**), 21.9–432

Takeuchi, Tetsuo, *see* **Hasegawa, S.**, 21.2–71

Takev, K., *see* **Sharov, Vl.**, 21.7–265

Takev, Kaloian, *see* **Godev, N.**, 21.1–238

Takhirov, M. T.
Eksperimental'nye dannye k gigienicheskomu normirovaniiu soderzhaniia uksusnoĭ kisloty i uksusnogo angidrida v atmosfernom vozdukhe [Experimental data on hygienic standardization of the content of acetic acid and acetic anhydride in the atmosphere], 21.1–308

Talboys, P. W.
Water deficits in vascular disease, 21.4–255

Taliaferro, N. G., *see* **Harris, F. S., Jr.**, 21.12–108

Taljaard, J. J.
Behavior of 1000–500-mb thickness anomalies in the Southern Hemisphere, 21.3–489

Tallant, Paul E.
A solar flare videometer, 21.11–642
See also **Beckers, Jacques M.**, 21.9–529

Talon, R., *see* **Albernhe, F.**, 21.10–289

Tamazian, A. A.
Osobennosti formirovaniia maksimal'nogo raskhoda vody v Sevan–Razdanskoi sisteme i metod ego prognoza [Peculiarities of forecasting formation of maximum water discharge in the Sevan–Rasdansk system], 21.11–731

Tamiya, H.
Night temperature distribution in a new town, western suburbs of Tokyo, 21.8–314
See also **Sekiguti, T.**, 21.8–389

Tammet, Kh. F.
Inertsionnost' elektrostaticheskikh polemerov [Inertia of electrostatic field measurement devices], 21.7–68

Tamsalu, R. E., *see* **Marchuk, G. I.**, 21.2–735

Tamura, Yuichi, *see* **Ogawa, Toshio**, 21.10–491

Tanaka, Hiroshi
0–5th cumulant approximation of inviscid Burger's turbulence, 21.6–288
On breakings and oscillations of water drops, 21.6–565

Tanaka, Kiichi
Wind at the Ashizuri Peninsula (*with* **Yamamoto, Daikichi** and **Nishida, Kōichi**), 21.10–86R

Tanaka, Masayuki, *see* **Yamamoto, Giichi**, 21.7–572

Tanaka, Shigeo, *see* **Takagi, Jinzaburo**, 21.7–423

Tanaka, Torao
On the effect of atmospheric pressure upon ground tilt, 21.1–471

Tanaka, Yoshikazu, *see* **Ogawa, Toshio**, 21.10–491; 21.12–306

Tanaka, Yuichiro
Study on sand waves: consideration on the wave height of sand waves, 21.11–732
Study on the flow over sand waves, 21.11–736

Tandberg-Hanssen, E.
Development of magnetic fields in active regions (*with* **Porter, C.**), 21.2–476

Tanenbaum, Andrew S.
Solar velocity fields: 5-min oscillations and supergranulation (*with others*), 21.7–768

Tang, Chung Muh
An analytical solution of the diffusion–deposition equations, 21.7–260
Effects of surface absorption and terminal velocity on the atmospheric diffusion of particulate material, 21.11–241

Taniguchi, Tsugitaka
Prediction of below minimum weather at Kagoshima Airport, 21.10–76R

Tanioka, Katsumi
On the East Korean warm current (Tōsen warm current), 21.4–724

Tanitte, A.
Réflexions sur le glaciaire cartusien autochtone [Notes on autochthonous Carthusian glaciation], 21.5–668

Tank, William G.
Example of air density determinations from electromagnetic phase measurements (*with* **Kreiss, W. T.**), 21.3–60
On-board technique for estimating the effect of water vapor in radio occultation measurements of atmospheric density, 21.3–61
See also **Beard, C. I.**, 21.3–78; 21.6–191

Tanner, C. B.
Anemoclinometer measurements of Reynolds stress and heat transport in the atmospheric surface layer (*with* **Thurtell, G. W.**), 21.3–197
Evaporation of water from plants and soil, 21.7–537
See also **Norman, J. M.**, 21.7–49; 21.8–57; **Thurtell, G. W.**, 21.11–90; **Wesely, M. L.**, 21.6–491

Tannhäuser, Irmhild Ortrud
Überlappungseffekte an infraroten Spektren [Overlapping effects in infrared spectra], 21.4–149

Tantashev, M. V., *see* **Golubitskiĭ, B. M.**, 21.4–666

Tantawy, A. H. I.
Diabatically induced deformation of the tropical African troposphere in the rainy season, 21.7–449
On the genesis and structure of spring desert depressions in subtropical Africa, 21.7–285

Taranovskaia, V. N.
Nekotorye osobennosti sutochnogo khoda temperatury verkhnego sloia pochvy [Some peculiarities of the diurnal temperature variation in the upper layer of the soil], 21.11–326

Tarasenko, D. A., *see* **Gaĭgerov, S. S.**, 21.6–454

Tarasov, T. M., *see* **Pavelko, I. M.**, 21.2–572

Tarasov, V. V.

Spektrofotometricheskoe opredelenie malogo kolichestva benzina v vozdukhe [Spectrophotometric determination of small quantities of benzene in the air] (*with* **Vengerskaia, Kh. Ia.**) [and English transl.], 21.6–185

See also **Vengerskaia, Kh. Ia.**, 21.5–301

Tarasova, T. M.

Atomic oxygen glow λ 6300 Å from 1967 rocket data, 21.8–254

Tarassov, Victor J.

Optimization of a class of river aeration problems by the use of multivariable distributed parameter control theory (*with* **Perlis, H. J.** and **Davidson, B.**), 21.10–759

Tárkányi, Zsuzsanna, *see* **Major, G.**, 21.3–500

Tarrant, John R. (*comp.*)

Computers in geography, 21.12–28R

Tarverdiev, R. B.

Vliianie Mingechaurskogo vodokhranilischa na termicheskii rezhim nizhnego techeniia r. Kury [Effect of the Mingechaur water reservoir on the thermal regime of the lower current of the Kura River], 21.12–706

Tary, J. J.

Larch Mountain–Capitol Peak radar and communication radio frequency interference survey (*with* **Livingston, T. L.**), 21.10–577

Tasai, Fukuzō

Effect of shallow water on the natural period of heave (*with* **Kim, C. H.**), 21.2–779

Tasson, A.

Climatologie de l'áerodrome de Bâle–Mulhouse [Climatology of the Bâle–Mulhouse Airfield] (*with others*), 21.4–317

Tatarova-Krŭsteva, V., *see* **Koleva, St.**, 21.10–362

Tatarskaia, M. S.

Nektorye voprosy metodiki optimal'noĭ trekhmernoĭ statisticheskoĭ interpoliatsii geopotentsiala [Some problems in the methodology of the most favorable three-dimensional statistical interpolation of geopotential] (*with* **Nizhnikov, E. A.**), 21.1–228

See also **Obukhov, A. M.**, 21.8–346

Tatehira, Ryozo

Methods of updraft estimation with Doppler radar, 21.10–87R

See also **Atlas, David**, 21.10–88R

Tatro, Peter R., *see* **Clay, C. S.**, 21.2–704

Tattelman, Paul I.

World frequency of high temperature (*with* **Sissenwine, N.** and **Lenhard, R. W., Jr.**), 21.5–481

Taubenheim, Jens

Statistische Auswertung geophysikalischer und meteorologischer daten [Statistical interpretation of geophysical and meteorological data], 21.10–13

Tauber, G. M.

K 20-letiiu sovestskikh gidrometeorologicheskikh issledovanii v Antarktike [The 20th anniversary of Soviet hydrometeorological investigations in the Antarctic] (*with others*), 21.12–56

O planetarnom razvitii blokiruiushchikh protsessov [Planetary development of blocking processes], 21.7–279

Tauber, Henrik, *see* **Dansgaard, W.**, 21.4–658

Taupin, D., *see* **Lambert, Gerard**, 21.12–327

Tavartkiladze, K. A.

K vychisleniiu effektivnogo izlucheniia [Computation of the effective radiation], 21.1–432

Taylor, Albion, *see* **Oort, A. H.**, 21.3–417

Taylor, Bernadine B., *see* **Schroeder, M. J.**, 21.1–57

Taylor, C. B.

Comparison of tritium and strontium-90 fallout in the Southern Hemisphere, 21.3–407

Taylor, G. I.

Some early ideas about turbulence, 21.12–364

Taylor, George S., *see* **Lal, Rattan**, 21.8–490

Taylor, H. A., Jr.

Ion depletion in the high-latitude exosphere: simultaneous OGO-2 observations of the light ion trough and the VLF cutoff (*with others*), 21.10–493

See also **Brinton, H. C.**, 21.11–175

Taylor, J. D., *see* **Murty, T. S.**, 21.9–721

Taylor, James A.

British weather in maps (*with* **Yates, R. A.**), 21.1–18

Cost of British weather, 21.8–674

Weather economics: based on papers and discussions at a Symposium held at the Welsh Plant Breeding Station near Aberystwyth on March 13, 1968, 21.8–673

- **Taylor, P. A.**
  - A model of airflow above changes in surface heat flux, temperature and roughness for neutral and unstable conditions, 21.12–360
  - On wind and shear stress profiles above a change in surface roughness, 21.1–524
- **Taylor, S. A.**
  - Terminology in plant and soil water relations, 21.3–699
- **Taylor, V. Ray,** *see* **Booth, A. L.,** 21.5–52
- **Taylor, W. L.**
  - Determining lightning stroke height from ionospheric components of atmospheric wave-forms, 21.8–636
- **Taylor-Barge, Bea**
  - Summer climate of the St. Elias Mountains region, 21.7–686
- **Taylore, P.,** *see* **McGinnies, W. G.,** 21.3–680
- **Tchandaev, A. K.,** *see* **Korobova, Z. B.,** 21.6–719
- **Tchegodaev, N. N.,** *see* **Boldakov, E. V.,** 21.2–548
- **Tebbens, Bernard D.,** *see* **Thomas, J. F.,** 21.6–186
- **Tebo, Albert R.**
  - Measured temperatures and humidities inside clouds, Flagstaff, Arizona, 1966, 21.6–588
- **Technical Exchange Conference, 5th, Air Force Academy, Colo., 1969**
  - Meteorological resources and capabilities in the '70's: Proceedings of the Conference, 21.8–8
- **Technical Operations, Inc., Burlington, Mass.,** *see* **Trowbridge, C. A.,** 21.1–487; **Ward, J. H.,** 21.1–190
- **Technology Review [Cambridge, Mass.]**
  - What happens to air pollutants, 21.5–303
- **Teĭfel', Viktor Germanovich**
  - Atmosphere of the planet Jupiter, 21.8–750; 21.11–29R
  - Molecular absorption and the possible structure of the cloud layers of Jupiter and Saturn, 21.7–763
  - Molecular absorption of light in Jupiter's atmosphere and the surface structure of the planetary cloud layer, 21.11–596
  - Nepreryvnyĭ spektr i molekuliarnoe pogloshchenie v Krasnom Piatne na Iupitere [The continuous spectrum and the molecular absorption in the Red Spot of Jupiter], 21.11–597
  - Optical properties and structure of the Jovian atmosphere, Pt. 1, Photometric contrasts, molecular absorption, and possible structure of the dark equatorial belt during 1962–1963, 21.10–631
  - Optical properties and structure of Jupiter's atmosphere, Pt. 2, Effects of multiple scattering in the cloud layer on profiles of planetary absorption lines, 21.10–632
  - Vrashchatel'naia temperatura i verkhniĭ predel davleniia vo vneshneĭ atmosfere Urana [The rotational temperature and the upper limit of pressure in the outer atmosphere of Uranus] (*with* **Kharitonova, G. A.**), 21.10–633
- **Teitelman, A.,** *see* **Manes, A.,** 21.10–268
- **Telegadas, Kosta,** *see* **List, R. J.,** 21.3–432; **Machta, L.,** 21.10–213; 21.12–345
- **Telford, James**
  - Convective field, 21.1–544
- **Teller, H. L.**
  - Forest land management and the water resource, 21.9–620
- **Temkin, S.**
  - Cloud droplet collision induced by thunder, 21.1–594
- **Temnikov, S. N.**
  - Ispol'zovanie televizionnoi informatsii meteorologicheskikh sputnikov Zemli v gidrologicheskikh tseliakh [Utilization of TV information from meteorological Earth's satellites for hydrological aims], 21.12–81
- **Temple, Joann**
  - Model hurricane, 21.1–406
  - Weapon against the weather, 21.2–45
- **Temple, P. H.**
  - Survey of the Ruwenzori glaciers for recent changes, 21.1–763
- **Teneva, M.**
  - Mezhdunaroden simpozium po meteorologichni aspekti na zamŭrsiavaneto na atmosferata [International symposium on the meteorological aspects of atmospheric pollution], 21.2–56
- **T'eng, Ch'in Hong**
  - Polozhitel'naia i otritsatel'naia sopriazhennost' sloia F2 ionosfery v nizkikh shirotakh [Positive and negative conjugation of the ionosphere F2-layer in low latitudes] [and English transl.], 21.5–355
- **Ten Kate, H.**
  - De warme maar natte zomer van 1969 [Warm but wet summer of 1969], 21.12–51

De zeldzaam sombere winter 1968/69 [The exceptionally overcast winter 1968/69], 21.5–71
Tennessee, Office of Civil Defense
West Tennessee severe weather warning plan (1969), 21.9–107
Tenu, Augustin
Hidrogeologia şi regimul apelor freatice din zona Conţeşti–Titu [Hydrogeology and groundwater regime in the Conţeşti–Titu zone] (*with* **Tenu, Sînziana**), 21.1–782
Impurificarea apelor subterane [Groundwater pollution], 21.7–798
See also **Cădere, R.**, 21.4–535
Tenu, Sînziana, *see* **Cădere, R.**, 21.4–535; **Tenu, A.**, 21.1–782
Tepeş, Elena
Frecvenţa zilelor cu temperatura maximă ≥25°C, "zile de vară" pe teritorium Republicii Socialiste România [Frequency of days with maximum temperatures ≥25°C, "summer days" in Rumania], 21.6–444
See also **Stoenescu, M. Ş.**, 21.6–443
Teptin, G. M., *see* **Pokrovskiĭ, G. B.**, 21.4–241
Terent'eva, A. K.
Investigation of minor meteor streams, 21.11–613
See also **Ostapovich, I. S.**, 21.11–606; **Shaimardanov, M. Z.**, 21.12–43
Terent'eva, T. M., *see* **Shaĭmardanov, M. Z.**, 21.12–43
Ter Haar, Gary L.
Lead uptake by perennial ryegrass and radishes from air, water and soil (*with others*), 21.3–703
Terjung, Werner H.
Annual march of the topoclimatic spatial patterns of net radiation in Southern California (*with others*), 21.4–133
City–man system in urban energy balance climatology, 21.6–666
Energy and moisture balances of an Alpine tundra in mid-July, 21.11–223
Terrestrial, atmospheric and solar radiation fluxes on a high desert mountain in mid-July (*with others*), 21.2–117
Urban energy balance climatology: a preliminary investigation of the city–man system in downtown Los Angeles, 21.7–698
Ter-Mkrtchian, M. G.
K opredeleniiu chisla nezavisimykh stantsiĭ, "ekvivalentnykh" dannoĭ sisteme korrelirovannykh stantsiĭ [Determination of the number of stations in a system of independent stations equivalent to a system of correlated stations], 21.5–34
Nekotorye osobennosti primeneniia lineĭnogo diskriminantnogo analiza dlia prognoza [Some characteristics of the application of linear discriminant analysis in forecasting] (*with* **Lukiianova, L. E.**), 21.12–161
Novyĭ sposob realizatsii diskriminantnykh i regressionnykh skhem [A new way for the realization of discriminant and regression schemes], 21.3–248
Ob ozhidaemoi opravdyvaemosti prognoza v skheme kvadratichnogo diskriminantnogo analiza [The reliability of a forecast in the quadratic discriminant analysis method], 21.12–173
Terstriep, Michael L.
Urban runoff by road research laboratory method (*with* **Stall, J. B.**), 21.5–649
Terziev, F. S.
Obrazovanie morskikh tumanov tipa ispareniia i nekotorye rekomendatsii k ikh prognozu [Formation of sea fog of the evaporation type and several recommendations for forecasting it], 21.10–113
Teske, Richard G.
Solar soft X-rays and solar activity, Pt. 1, Relationships between reported flares and radio bursts, and X-ray bursts (*with* **Thomas, R. J.**), 21.9–228
Teteriatnikova, E. P.
Aerosinopticheskie usloviia, opredeliaiushchie vodnost' r. Amura [Upper air conditions which determine the average flow of the Amur River], 21.2–524
Teterin, V. P.
Determination of total soil and natural water salinity by the electric conductivity method, 21.11–444
Tewungwa, S.
Some contributions of meteorology to the economic development of East Africa, 21.12–23
Texas. A&M Research Foundation, College Station, *see* **Clayton, W. H.**, 21.6–7, –8
Texas. Agricultural and Mechanical Univ., College Station. College of Geoscience
Contributions in Oceanography, Vol. 12, 21.10–68R
Texas. Agricultural and Mechanical Univ., College Station. Dept. of Oceanography

Oceanography of the Gulf of Mexico, 21.2–658
See also **Arnold, J. E.**, 21.4–156

Texas. Agricultural Experiment Station, College Station
Agroclimatic atlas of Texas, Pt. 1, 21.6–599

Texas Instruments Inc. [Dallas]
United States Naval Oceanographic Office marine geophysical survey program, 1965–1967, North Atlantic Ocean, Norwegian Sea and Mediterranean Sea, Area 7/4, Vol. 7, Data catalog, 21.1–722
United States Naval Oceanographic Office marine geophysical survey program, 1965–1967, North Atlantic Ocean, Norwegian Sea and Mediterranean Sea, Area 7/4, Vol. 8, Field operations, 21.1–723

Thaddeus, Patrick
Dry massive model of the atmosphere of Venus, 21.1–687
See also **Nordberg, W.**, 21.2–385

Thailand. Delegation to the Water for Peace Conference
General water conditions of Thailand, 21.11–95R

Thambyahpillai, T., *see* **Hashim, A.**, 21.10–297

Thams, J. C.
Gesichtspunkte der Bioklimatologie [Aspects of bioclimatology], 21.8–559
See also **Deschwanden, J. S. von,** (ed.), 21.8–538

Thatcher, L. L., *see* **Payne, Bryan R.**, 21.8–428

Thayer, Orla E.
Budget salinity recorder (*with* **Redmond, R.**), 21.9–676

The, Gwan Hien
Water supply of potable and industrial water by desalination of seawater (*with* **Beck, J. P.**), 21.9–693

Theakston, F. H.
Instant snow storms, 21.10–404

Theiss, John B., *see* **Battan, Louis J.**, 21.7–512

Thekaekara, M. P.
Solar irradiance measurements from a research aircraft (*with others*), 21.5–444

Theodoridis, George C.
Bimodal diffusion in the Earth's magnetosphere, Pt. 1, 21.8–298
Bimodal diffusion in the Earth's magnetosphere, Pt. 2, On the electron belts (*with* **Paolini, F. R.** and **Frankenthal, S.**), 21.8–299
Bimodal diffusion in the Earth's magnetosphere, Pt. 3, On the proton belt, 21.8–300
Bimodal diffusion in the Earth's magnetosphere, Pt. 4, On the space and time dependence of trapped particle energy spectra (*with* **Paolina, F. R.** and **Frankenthal, S.**), 21.8–301

Theon, J. S.
Seasonal transitions in the thermal structure of the mesosphere at high latitudes (*with* **Smith, W. S.**), 21.6–456

Thessalonica. Panepistēmion. Ergastērion Meteōroloias kai Klimatologias
Observations Météorologiques de Thessaloniki, 1959 [Meteorological observations at Thessalonica, 1959], 21.11–69R

Thirriot, C.
Influence de la présence intermittente d'une lame d'eau à la surface d'une colonne filtrante [Influence of the intermittent presence of a head of water at the surface of a filter column] (*with* **Sormail, L.**), 21.1–791

Thoday, R. D. C., *see* **Knight, P.**, 21.8–704

Thom, A. S.
Exchange of momentum, mass, and heat between an artificial leaf and the airflow in a wind-tunnel, 21.2–309
See also **McIntosh, D. H.**, 21.6–3

Thom, N. G.
Air pollution and the corrosion of metals, 21.11–165
See also **Sparrow, Christopher J.**, 21.12–261

Thomas, C. A., *see* **Pluhowski, E. J.**, 21.1–781

Thomas, Charles
Instant weather, 21.2–35

Thomas, Charles G.
That gallant band of twelve thousand, 21.5–62

Thomas, Charles L., *see* **Pierce, Allan D.**, 21.7–728

Thomas, Clare
Oceanographers probe Caribbean for data, 21.2–683

Thomas, F. J., *see* **Libby, L. M.**, 21.2–456

Thomas, G.
Comparaison entre les mesures du contenu total d'électrons par effet Faraday et sondages ionosphériques [Comparison between the measurements of total electrons by the Faraday effect and ionospheric soundings], 21.8–204

Thomas, G. E.
Theoretical study of the 27-day variation of upper-atmospheric temperature (*with* **Ching, B. K.**), 21.6–457
Thomas, J. O.
The exospheric plasma during the International Years of the Quiet Sun (*with* **Rycroft, M. J.**), 21.12–317
Trans-polar exospheric plasma, Pt. 3, A unified picture (*with* **Andrews, M. K.**), 21.1–332
Thomas, Jerome F.
Fate of airborne benzo[a]pyrene (*with* **Mukai, M.** and **Tebbens, B. D.**), 21.6–186
Thomas, L.
Atmospheric penetration of ultra-violet and visible solar radiations during twilight periods (*with* **Bowman, M. R.**), 21.6–382
Electron density distributions in the D-region during the night and pre-sunrise period (*with* **Harrison, M. D.**), 21.6–241
Ionospheric phenomena related to airglow, 21.8–205
Thomas, M. K.
Canadian urban climates, 21.4–357
Thomas, R. G., *see* **Mortier, F.**, 21.2–279
Thomas, R. M.
Balloon observations of a new-born X-ray source (*with others*), 21.10–598
Thomas, Roger J., *see* **Teske, Richard G.**, 21.9–228
Thompson, D. C.
Coreless winter at Scott Base, Antarctica, 21.2–190
Thompson, H. A.
Climate of Hudson Bay, 21.4–318
Thompson, Herbert J.
The James River flood of August 1969 in Virginia, 21.9–350
Thompson, J. C.
Potential economic benefits from improvements in weather information, 21.1–259
Value of weather forecasts, 21.5–147
Thompson, J. R., *see* **Mace, Arnett C., Jr.**, 21.9–280
Thompson, Jack C., *see* **Miller, Albert**, 21.10–8
Thompson, Louis M.
Weather and technology in the production of corn in the U. S. Corn Belt, 21.9–399
Weather and technology in the production of wheat in the United States, 21.9–400
Thompson, M. C., Jr., *see* **Wood, L. E.**, 21.6–686
Thompson, Owen E.
Use of short films in meteorological education, 21.5–21
Thompson, Philip D.
Lagrangian variable resolution method of short-range numerical weather prediction, 21.3–249
Reduction of analysis error through constraints of dynamical consistency, 21.3–250
Neeilerovy metody intergrirovaniia [Non-Eulerian methods of integration], 21.8–103
Thompson, Rory
Search for topographic Rossby waves in the Gappy Current Records at Site D, 21.2–744
Thompson, Will F.
Physical geography and military environment in a transect of the Utah and Colorado Rockies, 21.6–635
Thompson, William I., III
Review of radiometric measurements of atmospheric attenuation at wavelengths from 75 centimeters to 2 millimeters (*with* **Haroules, G. G.**), 21.1–336
Thomson, D. W., *see* **Birkemeier, W. P.**, 21.9–133
Thomson, Robert G.
Analytical evaluation of the denting of airplane surfaces by hail (with **Hayduk, R. J.**), 21.3–670
Thomson, Robert L.
Resources inventories: a comprehensive overview for water development, 21.9–566
Thony, J. L., *see* **Vachaud, G.**, 21.1–785
Thorarinsson, Sigurdur
Glacier surges in Iceland, with special reference to the surges of Bruarjokull, 21.10–783
Thorndike, Edward M., *see* **Hunkins, Kenneth**, 21.8–828
Thorne, Richard Mansergh, *see* **Russell, Christopher T.**, 21.12–430
Thorpe, S. A.
Boundary between laminar and turbulent flow (*with others*), 21.10–217
Experiments on the stability of stratified shear flows, 21.10–809
Thuronyi, Geza T., *see* **Antarctic Bibliography [Wash., D.C.]**, 21.1–46
Thursby, William R., Jr., *see* **Huffman, P. J.**, 21.4–375
Thurtell, G. W.
Three-dimensional pressure-sphere anemometer system (*with others*), 21.11–90

See also **Black, T. A.**, 21.6–144; **Norman, J. M.**, 21.7–49; **Tanner, C. B.**, 21.3–197; **Wesely, M. L.**, 21.6–491

Tiabotov, A. E.
Raspoznavanie meteorologicheskikh ob"ektov po otrazhennym signalam OKG [Identification of the meteorological objects by the OQG reflected signals] (*with* **Shliakhov, V. I.** and **Shupiatskiĭ, A. B.**), 21.7–560

Tidman, Derek A., *see* **Krall, Nicholas A.**, 21.11–295

Tiernan, Thomas O.
Negative ion reactions of significance to the atmosphere (*with* **Hughes, B. M.**), 21.3–356

Tikhmianov, G. G., *see* **Sushchinskiĭ, B. L.**, 21.9–59

Tikhomirov, I. I.
Bioklimatologiia Tsentralnoĭ Antarktidy i akklimatizatsiia cheloveka [Bioclimatology of central Antarctic and human acclimatization], 21.10–469

Tikhomirova, L. V.
Opyt issledovaniia statisticheskikh zakonomernosteĭ raspredeleniia temperatury vozdukha v otdel'nye chasy sutok [Studies of statistical distributions of the air temperature at given hours of the day], 21.11–311

Tikhotskiĭ, K. G.
O metodakh analiza i opisaniia territorial'nogo raspredeleniia stoka rek [Methods of analysis and description of the territorial distribution of river runoff], 21.2–540

Tilden, Charles E.
Techniques for the utilization of satellite observations in operational mapping of sea surface temperature (*with* **Clark, J. R.** and **Holl, M. M.**), 21.4–27

Timanovskaia, R. G., *see* **Faraponova, G. P.**, 21.1–176; **Pyldmaa, V. K.**, 21.1–439

Timchalk, Andrew, *see* **Hubert, L. F.**, 21.1–408; 21.3–462

Timofeev, Iu. M.
Real'nyi primer vosstanovleniia temperaturnogo profiliia atmosfery [An actual example of construction of an atmospheric temperature profile] (*with* **Pokrovskii, O. M.**), 21.8–324
Transmission functions of the real atmosphere, 21.11–30R
See also **Kondrat'ev, K. Ia.**, 21.1–450; 21.6–383

Timofeev, N. T.
Gololednye i gololedno-vetrovye nagruzki vdol' proektiruemykh liniĭ elektroperedach Nurekskaia GES: Tashkent [Glaze and glaze-wind loads along the planned electric transmission lines of Nurek GES (state electric power plant): Tashkent], 21.5–591
Raschetnye skorosti i napravleniia sil'nykh vetrov na proektiruemykh liniiakh elektroperedach Nurekskaia GES: Tashkent [Calculated velocity and directions of intense winds along the planned electric transmission lines for the Nurek GES (state electric power plant): Tashkent], 21.4–218

Timofeeva, G. M., *see* **Soboleva, N. S.**, 21.10–586

Timofeeva, V. A.
Kriteriĭ podobiia v optike mutnykh sred [Similarity criteria in the optics of turbid media] [and English transl.], 21.4–373
Ploskost' kolebaniĭ poliarizovannogo sveta v muthnykh sredakh [The plane of polarization of the scattered light in turbid media], 21.9–687

Timoshenko, G. L.
Sviaz' koeffitsientov iarkosti posevov zernovykh s ikh sostoianiem [Relationship between the brightness coefficients of grain cultures and their state], 21.12–591

Timoshkina, V. A., *see* **Kostiuchenko, V. P.**, 21.10–557

Timpson, Margaret S., *see* **Benwell, G. R. R.**, 21.1–215

Tin Aye Nyein
A.G.M. counter system for low level counting (*with others*), 21.11–107

Tinga, J. H., *see* **Bailey, M. H.**, 21.2–191

Tinsley, Brian A.
Hydrogen and helium in the upper atmosphere, 21.6–204
Interpretation of Balmera observations of M. F. Ingham, 21.11–540
Reinterpretation of geocoronal observations with increased high/low altitude hydrogen ratio, 21.1–321

Tishchenko, P. V., *see* **Levchanko, G. P.**, 21.8–378

Tisone, G. C.
[Discussion of] **J. B. Pearce:** Rocket measurement of nitric oxide between 60 and 96 kilometers and [Reply by] **Pearce**, 21.11–212

Ţîştea, Dumitru

Caracteristicile intervalului annal cu temperaturi sub 5°C la ora 8 pe teritoriul Republicii Socialiste România [Characteristics of annual interval in which 8-hr temperatures are below 5°C in Rumania] (*with* **Sîrbu, V.** and **Călinescu, N.**), 21.6–445

Titheridge, J. E.

The electron content of the low latitude ionosphere (*with* **Smith, W. D.**), 21.8–203

Horizontal gradients in the polar ionosphere, 21.1–676

On the field alignment of small ionospheric irregularities, 21.7–205

See also **Stuart, G. F.**, 21.3–379

Titkos, Ervin

Ciklogenezis [Cyclogenesis], 21.7–286

Titt, Edwin W.

On the predictor–corrector scheme for the digital solution of the partial differential equation of atmospheric diffusion, 21.1–372; 21.6–289

Titterton, P. J., *see* **Kerr, J. R.**, 21.6–673

Titulaer, Chriet, *see* **Dollfus, Audouin**, 21.10–613

Titus, Robert W.

Mobile radio telemetered data acquisition system, 21.1–180

Tiuktik, V. V., *see* **Anapol'skaia, L. E.**, 21.4–215, –216

Tkachenko, A. V.

Issledovanie izmeneniĭ vysoty nizhneĭ granitsy podynversionnykh sloistykh oblakov [Research into the altitude changes of the lower of subinversion stratus clouds] (*with* **Kolezhuk, V. T.**), 21.10–380

K voprosu o raschete koeffitsienta turbulentnosti i ego profilia v pogranichnom sloe atmosfery [The problem of computing the turbulence coefficient and its profile in the atmospheric boundary layer], 21.10–324

Otsenka vliianiia vertikal'nykh dvizheniĭ i turbulentnogo obmena na skorost' izmeneniia vysoty sloistykh oblakov [Evaluation of the effect of vertical motions and turbulent exchange on the rate of change of altitudes of stratus clouds] (*with* **Iukhimenko, E. I.**), 21.10–381

Tkachev, P. G.

K voprosu o metodakh izucheniia vliianiia atmosfernykh zagriazneniĭ na naseleni [The methods of studying the effect o atmospheric pollutions on the population] (*with* **Gladkovskaia, A. A.**) [an English transl.], 21.5–291

Tkhamokov, B. Kh.

Izmerenie sredneĭ moshchnosti otrazhennogo signala ot meteoob"ektov (primenitel'no radiolokatsionnym metodam aktivnogo vozdeĭstviia na gradovye protsessy) [Measuring the mean power of a signal reflected from meteorological objects (as applicable to radar methods of active modification of hai processes)] (*with others*), 21.1–103

Mul'tilokatory dlia mikrostrukturnykh issledovaniĭ oblakov i osadkov [Multilocators for microstructure investigations of clouds and precipitation], 21.1–201

Tlamicha, A.

No evidence of any solar limb brightening in the range of 3.5 mm–2 cm, 21.8–726

Tleimat, Badawi W.

Comparison of plastic and glass condensing covers for solar distillers (*with* **Howe, E. D.**), 21.2–113

Tobey, Russ L., *see* **Duff, Harvey W.**, 21.7–584

Todaro, Cosimo

Spettri di potenza del geopotenziale a 500 mb su alcune stazioni della Scandinavia, dell'Europa Centrale e del Mediterraneo Centrale [Power spectra of the 500-mb geopotential at some stations in Scandinavia, central Europe, and the central Mediterranean], 21.5–501

Su alcuni parametri statistici relativi alla rete aerologica dell'Italia centro-settentrionale [Some statistical parameters of the aerological network of north central Italy], 21.2–353

See also **Bassanini, P.**, 21.3–583; **Epifani, Roberto**, 21.7–614; **Franciosi, M. T.**, 21.1–477

Todorovic, P.

Stochastic process of precipitation (*with* **Yevjevich, V.**), 21.5–610

Toebes, Gerrit H., *see* **Delleur, J. W.**, 21.5–743

Tohmatsu, Takao

Solar radiation detector system for mesoturbosphere ozone density measurement, 21.3–179

okareva, E. F.
Postupleniia solnechnoĭ radiatsii na naruzhnye vertikal'nye poverkhnosti i vnutr' pomeshcheniĭ [The flow of solar radiation reception by the external vertical surface and inside of a building], 21.5–432
okareva, L. G.
Algoritm i programma dlia sostavleniia dolgosrochnykh prognozov urozhaĭnosti podsolnechnika na EVM M-20 [Algorithm and program for preparing long-range forecasts of the sunflower yield on the M-20 electronic computer] (*with* **Mel'nik, Iu. S.**), 21.9–96
okioka, T., *see* **Yanai, M.,** 21.5–411
olderlund, D. S., *see* **Ruddiman, W. F.,** 21.12–776
ollner, Hanns, *see* **Grunow, J.,** 21.4–284
olstiakov, D. N., *see* **Are, F. E.,** 21.6–373
olstikhin, O. N. (ed.)
Naledi Sibiri [Overglazed ice of Siberia] (*with* **Piguzova, V. M.** (ed.)), 21.8–813
olstikov, E. E.
Opyt raspoznavaniia baricheskikh obrazovaniĭ po statisticheskoĭ strukture poleĭ radiatsionnykh temperatur, poluchennykh s ISZ [Experience in the identification of pressure formations from a statistical structure of radiative temperature fields obtained from satellites], 21.3–451
olstikov, E. I.
Benefits of meteorological services in the U.S.S.R., 21.1–78
olstoy, Ivan
Atmospheric gravity waves from nuclear explosions (*with* **Herron, T. J.**), 21.6–472
Hudson Laboratories microbarograph system (*with* **Herron, T.**), 21.6–78
Mesoscale pressure fluctuations in the atmosphere, 21.4–187
Simplified atmospheric models and the properties of long-period internal and surface gravity waves (*with* **Pan, P.**), 21.6–271
omaides, M.
Improved exploding wire aerosol generator (*with* **Whitby, K. T.**), 21.12–266
omasko, M. G., *see* **Danielson, R. E.,** 21.6–704
omassian, A. D., *see* **Farley, T. A.,** 21.8–268
omassini, G.
Su una possible relazione tra scariche elettriche e fenomeni grandinigeni [Possible relationship between electrical discharge and hail phenomena] (*with* **Marena, G.**), 21.2–359
Tomczak, Gerhard
Die Wassermassenverteilung und Strömungsverhältnisse am Westausgang des Skagerraks während der internationalen Skagerrak-Expedition im Sommer 1966 [The distribution of water masses and the current conditions at the western exit of the Skagerrak during the International Skagerrak Expedition in summer 1966], 21.1–724
Tomczak, Matthias, Jr.
Über interne Tragheitsbewegungen in der westlichen Ostsee [Internal waves with inertia period in the western Baltic Sea], 21.11–784
Über interne Wellen in der Nähe der Trägheitsperiode [Internal waves near the inertia period], 21.4–774
Tomik, Teresa
Próba charakterystyki termicznej zbiornika Rożnowskiego [An attempt of thermic characteristic evaluation of the Rożnow Basin], 21.6–795
Tomita, K., *see* **Hirose, H.,** 21.11–620
Tomlain, Ján
Niektoré výsledky mikrometeorologických meraní v prostredí ihličnatêho lesa [Some results of micrometeorological measurements in a needle forest] (*with others*), 21.7–676
Tomlin, S. G.
Excitation of characteristic X-radiation in an atmosphere, 21.6–415
Tomsett, J. E.
Average monthly and annual rainfall maps of East Africa, 21.8–390
Mean monthly and annual rainfall maps of Eastern Africa, 21.9—305
Tonna, G., *see* **Ferrara, R.,** 21.1–570, –575; 21.4–269
Tooming, Kh. G., *see* **Budagovskiĭ, A. I.,** 21.1–420; **Ross, Iu. K.,** 21.1–460
Toong, H. D.
Passive microwave spectrum measurements of atmospheric water vapor and clouds (*with* **Staelin, D. H.**), 21.11–378
Toor, A., *see* **Harri, J.,** 21.2–165
Toporkov, L. G.
Izuchenie ledovogo rezhima vo vremia plavaniia d/e "Ob'" v raĭone moria Ueddella [Ice regime studies in the Weddell Sea during the voyage of the D/E Ob] [and English transl.], 21.5–775

O tsirkuliatsii vod v iugo-vostochnoi chasti Tikhogo okeana [Remarks on water circulation in the Southeastern Pacific Ocean] [and English transl.], 21.4–698

Topping, G.
Concentration of cobalt and zinc from seawater using 5,7-dibromo-8-hydroxyquinoline (bromo-oxine) supported on an anion exchange resin, 21.9–694

Torelli, M., *see* **Fortini, T.,** 21.2–454, –472, –482

Torii, Tetsuya
Report of the wintering party of the 8th Japanese Antarctic Research Expedition [illegible]

Tormoz, L. F., *see* **Glagolev, Iu. A.,** 21.6–355

Torochkov, V. Iu.
Giroskopicheskiĭ anemorhumbometr [Gyroscopic anemorhumbometer], 21.5–125
Giroskopicheskiĭ vektornyĭ datchik vetra [A gyroscopic wind vector sensor] (*with* **Surazhskii, D. Ia.**), 21.5–126
O diskretnosti pri izmerenii srednikh kharakteristik vetra [Discreteness in measuring mean wind characteristics], 21.4–189
Sravnitel'nye kharakteristiki nekotorykh chashechnykh priemnokov [Comparative characteristics of some cup-shaped wind sensors] (*with* **Surazhskii, D. Ia.**), [illegible]

Toronto. Univ. Great Lakes Inst.
Annual Report 1968, 21.2–614

Toropova, T. P.
K voprosu o zavisimosti aerozol'noi indikatrisy rasseianiia v atmosfere ot dliny volny [Wavelength dependence of atmospheric aerosol scattered indices], 21.5–482
Nekotorye dannye ob indikatrisakh rasseianiia v prizemnom sloe atmosfery [Some data about the scattering function in the bottom layer of the atmosphere] (*with* **Kegulikhes, V. V.** and **Salamakhin, K. M.**), 21.6–675
Nekotorye svoistva polidispersnykh sred s koeffitsientom prelomleniia 1.50 i 1.25 [Some data about polydisperse media with refractive index 1.50 and 1.25], [illegible]
O nekotorykh svoĭstvakh atmosfernogo aerozolia [Some properties of atmospheric aerosols], 21.5–292
See also **Ibraimov, N. M.,** 21.5–676

Torr, D. G.
Method of solution of the F1-layer no linear ionospheric continuity equati and the early morning and late eveni increase in electron density observed some stations (*with* **Torr, M. R.**), 21. 184
Theoretical investigation of corpuscu radiation effects on the F-region of t ionosphere (*with* **Torr, M. R.**), 21.6–2
See also **Torr, Marsha R.,** 21.8–255

Torr, Marsha R.
[Discussion of] **Robert T. Bennett:** La tude dependence of 6300 Å (OI) tw light airglow enhancement (*with* **To D. G.**), 21.8–255
See also **Torr, D. G.,** 21.6–242; 21.9–184

Torssel, B. W. R., *see* **Byrne, G. F.,** 21. 73

Tortosa, Spain. Observatorio del Ebro
Ionosfera (1963) [The ionosphere, 19 21.8–206

Toscano, William Michael
[illegible] bea 21.5–119

Toth, J.
A conceptual model of the groundwat regime and the hydrogeologic enviro ment, 21.12–686

Totyleva, V. P., *see* **Iaroshevskii, V. A** 21.4–343

Tousey, R.
On some aspects of XUV spectroheli grams (*with* **Sandlin, G. D.** and **Pu cell, J. D.**), 21.2–507
Photographs of coronal streamers from rocket on May 9, 1967 (*with* **Sandli G. D.** and **Koomen, M. J.**), 21.2–503

Toutenhooft, Wim
Front range mountain waves, Pt. 2 (*wi* **Lilly, D. K.**), 21.7–516

Tovey, Rhys
Alfalfa water table investigations, 21. 497
Turfgrass evaporation (*with* **Spencer, S.** and **Muckel, D. C.**), 21.7–538

Townsend, A. A.
Entrainment and the structure of turbule flow, 21.11–242

Toyokuni, Eiji, *see* **Oka, Taro,** 21.11–715

Trac, N. Q., *see* **Mortier, F.,** 21.2–279

Tracey, M. V.
Structure of water, 21.3–737

Trafton, Laurence M.
Structure of the atmospheres of the majo planets (*with* **Münch, G.**), 21.4–484

Trainer, Frank W.
- Drainage density as an indicator of base flow in part of the Potomac River Basin, 21.7–799

Trakhtengerts, V. Iu., *see* **Erukhimov, L. M.**, 21.12–296

Trammell, E. Godfrey, Jr. (ed.), *see* **World Data Center A [for] Oceanography,** 21.10–60R, –61R

Trask, David C., *see* **Zdunkowski, Wilford, G.**, 21.7–93

Travelers Research Center, Inc., Hartford, Conn., *see* **Cooley, D. S.**, 21.2–41

Travkina, L. V., *see* **Vladimirov, O. A.**, 21.9–729

Trefry, G.
- Report on the meteorological aspects of radioactive fallout over Australia from the 1966 nuclear tests at Mururoa Atoll (*with* **Callus, F.**), 21.3–408

Treidl, R. A.
- [Comments on] **H. Dahler:** Neue Resultate zu den Problemen Frontalzone/Jetstream und Zyklogense durch Kombination Theoretischer und empirischer Erkenntnisse and [Reply by] **Dahler** [New results on the problem of frontal zone-jet stream and cyclogenesis through the combination of theoretical and empirical findings], 21.3–418

Treilhou, T. P., *see* **Cambou, F.**, 21.6–401

Trellis, M., *see* **Leroy, J. L.**, 21.1–710

Trenin, V. P.
- Tipizatsiia raspredeleniia temperatury vody po vertikali v Severnoi Atlantike [Classification of the vertical water temperature distribution in the North Atlantic], 21.9–715

Trent, Eva Mae, *see* **Anderson, R. V.**, 21.3–689; **Gathman, S. G.**, 21.11–503

Treshnikov, A. F.
- Trinadtsataia sovetskaia antarkticheskaia ekspeditsiia [The 13th Soviet Antarctic Expedition] [and English transl.], 21.4–22
- Water circulation and ice drift of the Southern Ocean, 21.12–14R

Treussart, Henri
- Radar as a hydrological sensor, 21.7–29

Tribus, Myron
- Everybody talks about the weather, but . . . , 21.1–261
- Physical view of cloud seeding, 21.11–135
- Uncertainty and the weather, 21.8–81

Tricart, Jean
- Geomorphology of cold environments, 21.11–39R
- New method developed at the Centre de Géographie Appliquée, University of Strasbourg, to help evaluation of water resources, 21.8–792

Tries, P.
- Verfahren und Ergebnisse stereophotogrammetrischer Aufnahmen von Wolkenstrassen [Methods and results of stereophotogrammetric pictures of cloud streets (bands)], 21.9–297

Trifonov, G. P., *see* **Surnachev, N. V.**, 21.12–32

Trifonova, T. S.
- Struktura termicheskogo rezhima pri snegopadakh na severe ETS [The structure of the thermal regime during snow falls in the north of the European territory of the U.S.S.R.], 21.5–473

Tripathi, B. M., *see* **Pande, M. C.**, 21.2–467; 21.9–525

Tripe, R. L. K., *see* **Minkley, B. G.**, 21.11–63R

Trísková, L.
- Dalechno ĭonosferno razprostranenie na UVK [Distant ionospheric distribution of ultra shortwaves] (*with* **Samardzhiev, D.**), 21.1–677
- Note on the sporadic meteor radiant distribution, 21.10–641

Trivedi, S. J., *see* **Patel, H. I.**, 21.5–33

Trizna, Dennis B.
- Time delays of electromagnetic pulses due to molecular resonances in the atmosphere and the interstellar medium (*with* **Weber, T. A.**), 21.5–693

Trofin, Elena
- Zona de izvorîre la captările de apă subterană [Seepage face in groundwater catchment works], 21.5–758

Troitskaia, V. A.
- Pulsation of Pi2, the oval of aurora and the plasma in the magnetosphere, 21.5–741
- *See also* **Bol'shakova, O. V.**, 21.7–742

Troitskiĭ, B. V.
- K teorii obrazovaniia vytianutnykh neodnorodnosteĭ v sloe F2 ionosfery [The theory of formation of prolate irregularities in ionospheric F2-region] [and English transl.], 21.3–381

Troitskiĭ, V. S.
- O vozmozhnostiakh issledovaniia svoistv veshchestva Marsa po ego radioizlucheniiu [Possibilities of the investigation of Mars matter properties from Mars radioemission], 21.12–595

Troll, Carl
Räumliche und zeitliche Verteilung der Schwüle und ihre graphische Darstellung (mit besonderer Berücksichtigung Afrikas) [Spatial and temporal distribution of sultriness and its graphical representation (with special reference to Africa)], 21.10–470

Trombka, J. I.
Interpretation of cosmic X-ray and gamma-ray spectra, 21.12–439

Tromp, Solco W.
Einfluss von Wetter und Klima auf den Menschen [Influence of weather and climate on man], 21.7–695
Integrated physiological research required in developing arid and semiarid countries, with special reference to the health and economic development of these areas, 21.2–310

Troshichev, O. A.
Ob uglovoĭ anizotropii korpuskuliarnogo izlucheniia v statsionarnom geomagnitom pole, II [Angular anisotropy of corpuscular radiation in a stationary geomagnetic field, Pt. 2] [and English transl.], 21.6–417

Trosnikov, I. V.
Algoritm resheniia zadachi Neĭmana dlia uravneniia Puassona [Algorithm of the solution of Neiman's problem for the Poisson equation], 21.1–229
Kraevaia zadacha dlia sistemy uravneniĭ barotropnoĭ atmosfery [The boundary problem for the system of equations of the barotropic atmosphere], 21.5–366
See also **Shuliakovskii, L. G.**, 21.9–80R

Trotti, Leopoldo
Tabelle di previsione delle maree per Ancona, 1969 [Tide forecasting tables for Ancona, 1969], 21.4–638

Trout, Dennis
Energy dissipation near the tropopause (*with* **Panofsky, H. A.**), 21.4–201

Troutman, W. W.
Numerical calculations of the pressure pulse from a lightning stroke, 21.8–637

Trowbridge, C. A.
Measurements of turbulence and diffusion in high-altitude chemical clouds (*with* **Kofsky, I. L.** and **Johnson, R. H.**), 21.1–487

Trufaș, Valer
Apele subterane din bazinul superior al Jiului [Underground waters in the Jiu River upper basin], 21.4–548

Trumbull, Larry E.
Goals in water quality require watershed resource planning, 21.6–766

Trusov, I. I.
Ispariaemost' i isparenie na Kube [Evaporation capacity and evaporation in Cuba], 21.6–551

Truske, Theodore N., *see* **Petersen, Daniel P.**, 21.12–133

Truttse, Iu. L., *see* **Shefov, N. N.**, 21.9–219

Try, Paul David
Analysis of quasi-periodic wind variations from 25 to 65 kilometers, 21.2–234

Tryselius, Olof
Note on the computation of flood characteristics in Sweden, 21.10–706

Tsar'kova, A. M., *see* **Dziubenko, T. D.**, 21.2–93

Tsedilina, E. E., *see* **Gurevich, A. V.**, 21.8–272, –273; 21.9–223

Tseĭtlin, V. B.
O tochnosti radioastronomicheskikh metodov izmereniia parametrov antenn [Accuracy of radio astronomy methods of antenna parameter measurements] [and English transl.], 21.4–426

Tsel'niker, Iu. L.
Raspredelenie far na otkrytom meste i v lesu v zavisimosti ot pogody [Distribution of photosynthetically active radiation over open country and in forest depending upon the weather], 21.1–433
See also **Khazanov, V. S.**, 21.1–458

Tsendrovskaia, V. A.
Fotokolorimetricheskoe opredelenie giroperekisi izopropilbenzola v vozdukhe [Photocolorimetric determination of isopropylbenzol hydrogen peroxide in the air] (*with* **Reĭsig, I. S.**) [and English transl.], 20.3–53

Tsereteli, N. V.
O kharaktere korreliatsionnoĭ sviazi mezhdu vlazhnostiami vozdukh a na raznykh urovniakh nad Kavkazom [The character of the correlation between air humidity at different levels over the Caucasus], 21.10–356
O kharaktere statisticheskoĭ struktury prizemnogo polia vlazhnosti na territorii Gruzii [The character of the statistical structure of the humidity field near the ground over the territory of Georgia], 21.10–358

Tsertsvadze, Sh. I.
Agroklimaticheskie usloviia proizrastaniia tabaka na territorii Zakavkaz'ia [Agroclimatic conditions for tobacco growing

in Transcaucasia] (*with* **Meladze, G. G.**), 21.2–328

Tsigel'nitskii, I. I.
- O sutochnom khode temperatury vozdukha v pribrezhnoi klimaticheskoĭ zone Vostochnoĭ Antarktidy [Daily march of the air temperature in the coastal climatic zone of East Antarctica], 21.11–313

Tsipeniuk, A. L., *see* **Aĭzen, A. M.**, 21.6–345

Tsirkul'kevich, S. G., *see* **Filippov, A. Kh.**, 21.7–299

Tsirs, G. P., *see* **Kleĭmenova, N. G.**, 21.2–384

Tsitovich, T. A., *see* **Lazareva, K. I.**, 21.6–583

Tsitsenko, G. V.
- O radiatsionnykh svoistvakh obledenevshikh okonnykh stekol [Radiation properties of frozen wind glass], 21.12–411
- Otsenka effektivnogo izlucheniia poverkhnosti naruzhnykh sten zdaniĭ [Evaluation of the effective radiation of the surface of the external walls of a building], 21.5–434

Tskvitinidze, Z. I.
- K chislennomu prognozu geopeotentsiala i vetra [Numerical prediction of geopotential and wind], 21.5–178
- Opyt rascheta geopotentsiala i vetra v sredneĭ troposfere s pomoshch'iu polnykh uravneniĭ gidrodinamiki [An attempt at calculation of the geopotential and the wind in the middle troposphere by means of the primitive hydrodynamic equations], 21.9–84

Tsomaia, V. Sh.
- Rezul'taty issledovaniia granits rasprostraneniia lavinnykh i osovovykh zavalov na Voenno-Gruzinskoĭ doroge [Results of a study of the limits of occurrence of loose-snow and slab avalanche depositions along the Georgian Military Road], 21.1–634

Tsovian, M. V., *see* **Egiazarov, I. V.**, 21.9–594

Tsuberbiller, E. A.
- Agrometeorologicheskie osnovy vyrashchivaniia vysokikh urozhaev kartofelia [Agrometeorological basis for growing good potato crops], 21.1–54

Tsuchiya, Atsushi
- Slowly varying component of the solar radio emission around 1-cm wavelength, 21.4–456

Tsuchiya, Iwao
- Dynamic climatological studies on the meandering of westerlies and the Japanese climate, 21.9–409
- Selected bibliography on water balance of monsoon Asia, Pt. 1, 21.11–50R

Tsuchiya, K., *see* **Mukae, M.**, 21.10–471

Tsuchiya, Kiyoshi
- Kinematic and synoptic analyses of the polar frontal cloud band in APT pictures (*with* **Hoshina, M.**), 21.2–107

Tsui, Ted, *see* **Bonner, William D.**, 21.10–215

Tsuneoka, Y., *see* **Matsumoto, S.**, 21.8–411

Tsuruda, Mitsuko
- Hydrogen emission preceeding auroral break-up (*with* **Kaneda, E.**), 21.2–374

Tsurumi, Sakuro
- Some results on lightning stroke current measurements in Japan (*with* **Kinoshita, K.** and **Ikeda, G.**), 21.9–433

Tsutskeridze, Ia. A.
- I. V. Figurovskiĭ: issledovatel' klimata Kavkaza [I. V. Figurovskiĭ: scientist of the climate in the Caucasus], 21.3–30

Tsvang, L. R.
- Microstructure of temperature fields in the free atmosphere, 21.11–321
- Vsesoiuznoe soveshchanie "eksperimental'nye metody i apparatura dlia issledovaniia turbulentnosti," 31 oktiabria–2 noiabria 1968 g., g. Novosibirsk [All-Union conference "Experimental Methods and Equipment for Investigating Turbulence, Oct. 31–Nov. 2, 1968, Novosibirsk] [and English transl.], 21.3–587
- *See also* **Kukharets, V. P.**, 21.7–253

Tsverava, V. G., *see* **Borisenko, M. M.**, 21.4–222; **Ubushaev, V. N.**, 21.4–226

Tsvetkova, T. N.
- Model' statsionarnogo temperaturnostratifitsirovannogo pogranichnogo sloia atmosfery [A model of the stationary thermally stratified boundary atmospheric layer], 21.4–48

Tsvyk, R. Sh., *see* **Khmelevtsov, S. S.**, 21.12–467

Tsyganenko, A. F.
- Aeolian migration of salts and its possible geochemical and soil-forming importance [Transl. from Russian], 21.4–234

Tsytovich, V. N.
- Indutsirovannyi kompton-effekt na plazmennykh i elektromagnitnykh volnakh v astrofizicheskikh usloviiakh [The induced Compton-effect in plasma and

electromagnetic waves under astrophysical conditions] (*with* **Chikhachev, A. S.**), 21.11–557
Poliarizatsiia izlucheniia turbulentnoĭ plazmy v kosmicheskikh usloviiakh [The polarization of radiation of turbulent plasma under cosmic conditions] [and English transl.], 21.3–715
See also **Krivorutskiĭ, E. N.**, 21.9–467; **Makhan'kov, V. G.**, 21.5–359
Tuan, T. F.
On the theory of oxygen red-line emission, 21.3–522
Tuan, Yi Fu
Climate of New Mexico (*with* **Everard, C. E.** and **Widdison, J. G.**), 21.8–511
Tuchkov, L. T.
Thermal radio emission from an ice cover in the UHF-band (*with others*), 21.9–89R
Tucker, J. W., *see* **Bradford, J. N.**, 21.7–72
Tuesday, Charles S., *see* **Glasson, William A.**, 21.12–239
Tulinov, V. F.
Fizika vysokikh sloev atmosfery [Physics of the upper atmosphere], 21.3–357
Ionization of the lower ionosphere under the influence of corpuscular radiation (*with* **Shibaeva, L. V.** and **Iakovlev, S. G.**), 21.6–420
Izmenchivost' intensivnosti korpuskuliarnogo izluchenii v verkhneĭ atmosfere na srednikh shirotakh [Variability in the intensity of corpuscular radiation in the upper atmosphere at middle latitudes] (*with* **Moiseev, Iu. N.** and **Shapiro, I. G.**), 21.6–421
O roli $L\alpha$-izlucheniia v ionizatsii nizhneĭ ionosfery [The role of $L\alpha$-radiation in the ionization of the lower ionosphere], 21.7–206
Ob energetike verkhneĭ atmosfery poliarnoĭ oblasti [Energy balance of the upper atmosphere in the polar regions] (*with* **Chizhov, A. F.**), 21.11–224
Tulupov, B. I., *see* **Laktionov, A. G.**, 21.7–554
Tuma, Jiri
Rapid measurement of light scattering diagrams from single aerosol particles (*with* **Gucker, F. T.**), 21.12–115
Tumanov, Sergiu, *see* **Diaconescu, G. I.**, 21.1–348; 21.4–81
Tunisia. Service de la Météorologie Nationale
Probabilité des pluies en Tunisie [Probability of rain in Tunisia], 21.1–608
Tunney, John
Federal role in pollution abatement and control, 21.12–267
Turchin, V. F.
Primenenie statisticheskoĭ reguliarizatsii k opredeleniiu vertikal'nogo profiliia temperatury atmosfery [Application of statistical regularization for the determination of atmospheric temperature vertical profile] (*with* **Malkevich, M. S.** and **Gorchakova, I. A.**) [and English transl.], 21.2–199
Turekian, Karl K.
Cycles of the sea, 21.4–747
Turikov, V. G.
O vybore setki pri chislennom integrirovanii uravneniĭ dinamiki atmosfery i okeana na sfere [The selection of a grid at the numerical integration of spherical equations of atmospheric and ocean dynamics], 21.5–376
Turkadze, N. N., *see* **Kochiashvili, B. M.**, 21.11–723
Turketti, Z. L.
Ob odnoĭ klassifikatsii makroprotsessov [A classification of macroprocesses], 21.2–42
Turkey. Istanbul Kandilli Observatory
Meteoroloji Rasatlari [Meteorological Bulletin], 21.11–57
Turner, D. Bruce
Workbook of atmospheric dispersion estimates, 21.5–293
Turner, J. Stewart
Circulation driven by ring convection in a rotating system, 21.1–407
See also **Stern, Melvin E.**, 21.9–714
Turner, N. C., *see* **Waggoner, P. E.**, 21.6–552
Turoboyski, Lesław
Wpływ wód podgrzanych na zawartość składników fizyko-chemicznykh w wodach powierzchniowych [The influence of the warm waters on the content of the physical and chemical elements of surface waters], 21.9–663
Turtle, J. P., *see* **Hernandez, G.**, 21.1–467
Turutin, B. F., *see* **Sergutin, V. E.**, 21.11–727
Turver, K. E., *see* **Earnshaw, J. C.**, 21.7–404
Tverskoĭ, B. A.
Ob elektricheskikh poliakh v magnitosfere Zemli [Electrical fields in the Earth's magnetosphere], 21.11–501
See also **Alekseeva, L. M.**, 21.5–336
Twiss, P. M., *see* **Rofe, Bryan**, 21.11–67

- **Twocock, J. G.**, *see* **Nwa, E. U.**, 21.7–797
- **Twomey, S.**
  - [Comments on] **B. M. Herman** and **D. N. Yarger:** Estimating the vertical atmospheric ozone distribution by inverting the radiative transfer equation for pure molecular scattering, 21.5–334
  - Observations of the geographical variation of cloud nuclei (*with* **Wojciechowski, T. A.**), 21.1–568
  - Oceanic production of cloud nuclei, 21.10–366
  - On the composition of cloud nuclei in the Northeastern United States, 21.1–569
- **Tyagi, Tuhi Ram**
  - Time lag in occurrence of Q-T point on Faraday rotation records at widely spaced frequencies (*with* **Bhatnagar, V. P.**), 21.3–165
- **Tyner, R. V.**
  - Cyclone development associated with a low latitude westerly stream, 21.12–124
  - Verification of the USWB ESSA P. E. 36 hour forecast 1000–500-mb thickness pattern, 21.11–126
- **Tyrrell, J. G.**
  - Note on the areal patterns in the value of early potato production in south-west Wales, 1967, 21.8–683
- **Tyson, P. D.**
  - Statistical model of the mountain wind over Pietermaritzburg, 21.12–478
  - Towards a regional model of local topographically-induced wind systems in Natal, 21.10–335

U

- **Uban, H. D.**
  - Pipe profile data and wave observations from the CERC Beach Evaluation Program, January–March 1968 (*with* **Galvin, C. J., Jr.**), 21.11–790
- **Ubushaev, V. N.**
  - Ob izmenenii napravleniia vetra s vysotoĭ v nizhnem 300-metrovom sloe atmosfery [The change of wind direction with height in the lower 300-meter layer of the atmosphere] (*with* **Tsverava, V. G.**), 21.4–226
- **Uchida, E.**
  - Simulation approach to the formation of precipitation particles using the Monte Carlo method (*with* **Ohta, S.**), 21.7–569
  - *See also* **Ohta, S.**, 21.12–99
- **Uchida, Robert**, *see* **Takahashi, Tsutomu**, 21.8–654
- **Uda, Michitaka**
  - Eastward subtropical countercurrent in the western North Pacific Ocean (*with* **Hasunuma, K.**), 21.12–768
- **Ueno, Tetuo**, *see* **Ishihara, Yasuo**, 21.11–735
- **Uesugi, Akira**
  - Computation of synthetic spectra for a semi-infinite atmosphere (*with* **Irvine, W. M.**), 21.4–485
  - Multiple scattering in a plane-parallel atmosphere, Pt. 1 (*with* **Irvine, W. M.**), 21.6–689
- **Uganda. Ministry of Mineral and Water Resources**
  - General water conditions of Uganda, 21.11–95R
- **Uglev, V. D.**, *see* **Legen'kov, A. P.**, 21.12–731
- **Ugriumov, A. I.**
  - Dvukhletniaia tsiklichnost' v troposfere umerennykh shirot Severnogo polushariia [Biennial cyclicity in the troposphere of middle Northern Hemisphere latitudes], 21.1–386
- **Ugriumova, G. V.**, *see* **Vel'tishchev, N. F.**, 21.7–574
- **Uhlig, Dieger**
  - König-Faisal-Projekt Haradh: Ein Siedlungsvorhaben in der Wüste Arabiens [King Faisal Haradh Project: a settlement project in the Arabian Desert], 21.1–660
- **Ukhanova, E. A.**
  - O sokrashchenii vremeni vyderzhki zhidkostynykh termometrov pri poverke [The reduction of testing time of liquid thermometers], 21.9–57
- **Ukraine. Upravlenie Gidrometeorologicheskoi Sluzhby**
  - Atlas volneniia i vetra Chernogo moria [Atlas of waves and winds on the Black Sea] (*with others*), 21.12–779
- **Ulanov, Kh. K.**
  - Po povodu vozrazheniĭ na moi vzgliady, kasaiushchiesia proiskhozdeniia anomalii temperatury vody v vostochnoĭ chasti Srednego Kaspiia [Apropos my remarks on the origin of temperature anomaly in the eastern Caspian Sea] [and English transl.], 21.4–746
- **Ulbrich, Štěpán** (HMÚ)
  - Význam referátových časopisů a bibliografií pro obor meteorologie a klimatologie [Role of abstracting journals and bibliographies and their use in the field

of meteorology and climatology], 21.1–79

Ulrich, Johannes, *see* **Dietrich, G.,** 21.1–38

Ulwick, J. C.
- Coordinated measurements from two multi-experiment rockets in an aurora (*with others*), 21.11–525

Uman, Martin A.
- Decaying lightning channels, bead lightning, and ball lightning, 21.10–498
- Lightning research: some recommendations, 21.8–638
- Magnetic field of lightning return stroke (*with* **McLain, D. K.**), 21.8–639
- Radiation field and current of the lightning stepped leader (*with* **McLain, D. K.**), 21.8–640
- *See also* **Lowke, J. J.,** 21.8–645

Umscheid, Ludwig, Jr., *see* **Sankar Rao, M.,** 21.3–245

Underwood, J. M.
- Improved collimator for extreme ultraviolet and X-rays, 21.3–187

Ungemach, P.
- Essais de détermination du coefficient d'emmagasinement en nappe libre: application a la nappe alluviale du Rhin [Experiments to determine storage coefficient in a free aquifer: application to the alluvial aquifer of the Rhine] (*with* **Mostaghimi, F.** and **Duprat, A.**), 21.1–786

Unger, Elisabeth, *see* **Foitzik, Leonhard,** 21.12–423

Ungethüm, Eugen
- VLF-Strahlung der atmosphäre Messtationen Uppsala–Stockholm: Aufbau und Resultate 1968 [VLF radiation of the atmosphere at the Uppsala–Stockholm measurement stations: methods and results, 1968], 21.7–218

United Nations. Development Program
- General report of the groundwater investigation of the Azraq Basin, 21.1–795

United Nations Economic Commission For Asia and the Far East (ECAFE)
- Tropical cyclones, floods and droughts in the ECAFE region, 1968, and damage caused, 21.2–97

United Nations Educational, Scientific and Cultural Organization (UNESCO)
- Antarctic glaciology in the International Hydrological Decade, 21.12–718
- Perennial ice and snow masses: a guide for compilation and assemblage of data for a world inventory, 21.12–721
- Seasonal snow cover: a guide for measurement, compilation and assemblage of data, 21.12–545
- Variations of existing glaciers: a guide to international practices of their measurement, 21.12–719
- *See also* **Symposium on Land Evaluation, Canberra, 1968,** 21.1–34

U. S. Agricultural Research Service. Salinity Lab., Riverside, Calif.
- Water transfer from soil to the atmosphere as related to soil properties, plant characteristics and weather, 21.1–556

U. S. Air Force
- Cloud patterns on a summer day, 21.7–562
- New radar technique for detecting cloudy-air turbulence, 21.7–477
- Reconnaissance weather planning factors for fair weather systems (Germany), 21.7–579

U. S. Air Force. Cambridge Research Labs.
- AFCRL space science research during 1968, 21.2–5
- DASA and Air Force plan extensive study of radio blackout, 21.2–80
- Atmospheric visibility in Southeast Asia, 21.2–341
- Bibliography of AFCRL publications from Jan. 1 to March 31, 1969, 21.1–49
- Bibliography, with abstracts, of AFCRL publications from Jan. 1 to March 31, 1969, 21.9–140R
- Bibliography, with abstracts, of AFCRL publications from Jan. 1 to March 31, 1970, 21.9–141R
- Helicopter technique for clearing warm fog and clouds, 21.1–263

U. S. Air Force. Office of Aerospace Research
- OAR Index of Research Results, 1967–1968, 21.10–55R
- Air Force research objectives 1969 [in] physical sciences, engineering sciences, environmental sciences, life sciences, 21.10–54
- Air Force Research Resumes, 1968, 21.9–123R
- Dayglow profile, 21.4–364
- Measurement of upper-air pollution, 21.11–162

U. S. Air Resources Lab
- Fiscal year 1968 summary report of the Div. of Meteorology support to the National Center for Air Pollution Control, U. S. Public Health Service, 21.2–57

U. S. Air Weather Service
Catalog of local forecast studies, 21.9–228R
Climate of Laos, 21.7–663
Forecasters' guide on aircraft icing, 21.9–105R
Local analysis program, 21.9–99
Southeast Asia precipitation analyses, 21.8–391
Terminal forecast reference file for McGuire AFB, New Jersey, 1969, 21.9–102
Terminal forecast reference file (for Pease Air Force Base, N.H.), Vol. 1, 21.9–100
Terminal forecast reference file, Vol. 1, (for) Ramey AFB, 1969, 21.9–101
U. S. Naval Weather Service world-wide airfield summaries, Vol. 1 (revised), Southeast Asia, 21.10–100R
U. S. Naval Weather Service world-wide airfield summaries, Vol. 6, Pt. 2, South America (except Argentina, Brazil, Uruguay), 21.10–117
U. S. Naval Weather Service world-wide airfield summaries, Vol. 8, Pt. 1, United States of America (West Coast, Western Mountains and Great Basin), 21.1–661
U. S. Naval Weather Service world-wide airfield summaries, Vol. 8, Pt. 2, 21.2–294
U. S. Naval Weather Service world-wide airfield summaries, Vol. 8, Pt. 3, 21.5–660
U. S. Naval Weather Service world-wide airfield summaries, Vol. 8, Pt. 4, United States of America (Great Lakes), 21.9–232R
U. S. Naval Weather Service world-wide airfield summaries, Vol. 8, Pt. 5, United States of America (Mississippi Valley Area), 21.9–231R
U. S. Naval Weather Service world-wide airfield summaries, Vol. 8, Pt. 7, United States of America (Appalachian Mountains, Middle Atlantic Region and Northeast Region), 21.9–230R
U. S. Naval Weather Service world-wide airfield summaries, Vol. 8, Pt. 8, United States of America (Alaska and Hawaii), 21.9–233R
Use of the skew T, log P diagrams in analyzing and forecasting, 21.7–91
Weather: local weather analysis program, 21.3–289
U. S. Air Weather Service. 8th Weather Squadron
Terminal forecast reference file, Vol. 1, 21.3–290
Terminal forecast reference file, Vol. 1 [for] Loring AFB, Maine, June 1969, 21.9–234R
Terminal forecast reference file [for] Westover AFB, Mass., Vol. 1, Aug. 1969, 21.9–229R
U. S. Air Weather Service. 15th Weather Squadron
Terminal forecast reference file [for] Altus Air Force Base, Oklahoma, Aug. 1969, 21.9–235R
U. S. Air Weather Service. 1st Weather Wing
Climate of Republic of Vietnam, 21.10–446
Climatology for Asian and Pacific visits, 21.10–447
U. S. Air Weather Service. 2nd Weather Wing
Meteorological bibliographies, 21.7–9
U. S. Arctic, Desert and Tropic Information Center, Maxwell AF Base, Ala.
Survival geography of South America, 21.11–477
U. S. Army Electronics Command. Atmospheric Sciences Off., White Sands Missile Range, N.M.
Report [on] research and operations, July 1967–June 1968, 21.3–31
U. S. Army Electronics Command, Ft. Monmouth, N.J., *see* **Clayton, W. H.,** 21.6–7, –8
See also **Viezee, W.,** 21.2–38
U. S. Army Natick Labs., Natick, Mass.
Bibliography of technical publications and papers, July 1968–June 1969, 21.9–135R
U. S. Army Tropic Test Center, Fort Clayton, Canal Zone
Environmental data base for regional studies in the humid tropics, 21.5–658
U. S. Atlantic Oceanographic and Meteorological Labs., Miami
Collected reprints, 1968, Atlantic–Pacific Oceanographic Laboratories, 21.11–110R
U. S. Atomic Energy Commission
Fallout Program Quarterly Summary Report, Dec. 1, 1968–March 1, 1969, 21.9–236R
Fallout Program Quarterly Summary Report, June 1–Sept. 1, 1969, 21.9–237R
U. S. Board of Geographic Names
Antarctica, 21.10–111R
U. S. Bureau of Mines
Clearing the air, 21.5–294
U. S. Coast and Geodetic Survey, Rockville

- Tidal currents, 21.10–837
- Tide tables high and low water predictions, 1970, West Coast of North and South America including the Hawaiian Islands, 21.1–751
- The tsunami and the mariner, 21.12–798

U. S. Coast Guard
- Announcement of U. S. Coast Guard International Ice Patrol Services, 1970, 21.8–811
- Report of the International Ice Patrol Service in the North Atlantic Ocean, Season [of] 1966, 21.3–750
- Report of the International Ice Patrol Service in the North Atlantic Ocean, Season of 1968, 21.9–181R
- Report of the International Ice Patrol Service in the North Atlantic Ocean, Season of 1969, 21.11–64R

U. S. Cold Regions Research and Engineering Lab., Hanover, N.H.
- Bibliography on Cold Regions Science and Technology, Vol. 23, 21.8–430

U. S. Congress, House
- National Environmental Policy Act of 1969, 21.8–151

U. S. Congress, Senate. Committee on Public Works. Subcommittee on Air and Water
- Waste management research and environmental quality management: hearings before the Subcommittee, 90th Congress, 2nd session, May 22 and June 9–10, 1968, 21.1–309

U. S. Corps of Engineers
- Flood plain information, Cedar River and tributaries, Austin, Minnesota, 21.9–239R
- Flood plain information, Mississippi River, Cassville, Wisconsin, 21.9–238R
- Flood plain information, Mississippi River, Rock Island County, Illinois; Scott and Muscatine Counties, Iowa, 21.4–585
- Flood plain information, Rock River, Rock Island County, Illinois, 21.9–609

U. S. Dept. of Commerce
- Serving a growing economy and a growing people, 21.8–9

U. S. Dept. of Health, Education, and Welfare
- Air pollution abatement by federal facilities, 21.5–295
- Nature and control of aircraft engine exhaust emissions, 21.5–296
- Progress in the prevention and control of air pollution, 21.5–297

U. S. Environmental Data Service
- Catalog of meteorological satellite data: ESSA-3 and ESSA-5 television cloud photography, Jan. 1–March 31, 1968, 21.9–163R
- Catalog of meteorological satellite data: ESSA-3 and ESSA-5 television cloud photography, April 1–June 30, 1968, 21.9–162
- Catalog of meteorological satellite data: ESSA-3, ESSA-5, and ESSA-7 television cloud photography, July 1–Sept. 30, 1968, 21.9–164R
- Catalog of meteorological satellite data: ESSA-7 television cloud photography, Oct. 1–Dec. 31, 1968, 21.11–59R
- Climatological data for Antarctic Stations, No. 10, Jan. 1967/Dec. 1968, 21.10–112
- Selective Guide to Climatic Data Sources, 21.9–142R

U. S. Environmental Satellite Center
- SIRS [Satellite Infrared Spectrometer] and the improved marine weather forecast, 21.6–70

U. S. Environmental Science Services Administration
- ESSA Libraries holdings in oceanography and marine meteorology, 1710–1967, 21.5–23
- ESSA science and engineering, July 1, 1967 to June 30, 1969, 21.10–24
- Guide to Soviet literature accessions in the Atmosphere Sciences Library and the Geophysical Sciences Library, 21.9–143R
- Heat wave, 21.2–192
- Transition from BOMEX to BOMAP (Barbados Oceanographic and Meteorological Analysis Project), 21.8–10
- Virginia floods, Aug. 19–22, 1969: a report to the Administrator, 21.9–606
- Weather and the hand of man, 21.4–34

U. S. Fleet Weather Central/Joint Typhoon Warning Center, Guam, Mariana Islands
- Annual Typhoon Report, 1969, 21.10–249

U. S. Forest Service. Rocky Mt. Forest and Range Experiment Station, Ft. Collins, Colo.
- Forestry Research Highlights, 21.5–685

U. S. Geological Survey
- Catalog of information on water data: maps showing locations of water quality stations, 21.8–774

U. S. Geological Survey. Water Resources Div.

Water resources data for Illinois, 1968, 21.10–410
See also **Water Resources Review,** 21.9–567
U.S. Goddard Inst. for Space Studies, N.Y., *see* **Brancazio, P. J.,** 21.1–24
U.S. Goddard Space Flight Center, Greenbelt, Md.
Nimbus-III user's guide, 21.10–49R
Nimbus-IV user's guide, 21.10–50R
U. S. Institute for Oceanography
Collected Reprints, ESSA Institute for Oceanography, 1967, 21.4–635
U.S. Institute for Telecommunications Sciences, Boulder, Colo.
Ionospheric Telecommunications Laboratory Progress Report No. 21, July 1968–December 1968, 21.10–57R
U.S. Interdepartmental Committee for Atmospheric Science
National operational space disturbances forecasting system, 21.10–116
U. S. Joint Publications Research Service
East European Scientific Abstracts: Earth Sciences, No. 84, 21.9–144R
Soviet-bloc Research in Geophysics, Astronomy, and Space, No. 212, 21.9–90R
Soviet-bloc research in geophysics, astronomy, and space, No. 224, 21.9–125R
U. S. Lake Survey
Directory and project forecasts [for] the Great Lakes, 21.4–604
U. S. Langley Research Center, Hampton, Va.
Compressible turbulent boundary layers, 21.5–688
Research opportunities at Wallops Station, 21.10–40
U.S. Library of Congress. Aerospace Technology Div.
Modification of the ionosphere, 21.5–214
U.S. Library of Congress. Science and Technology Div.
Air Force Scientific Research Bibliography, Vol. 8, 1965, 21.9–145R
U.S. Library of Congress, *see* **Antarctic Bibliography, Wash., D. C.,** 21.10–62R
U. S. National Aeronautics and Space Administration
Apollo 11: preliminary science report, 21.9–487
Astronautics and aeronautics, 1968: chronology on science, technology and policy, 21.11–40R
Bibliography of Soviet publications on the investigation of the upper layers of the atmosphere and outer space, 21.8–156
Mariner–Mars 1969: a preliminary report, 21.9–516
The NASA scientific and technical information systems: its scope and coverage, 21.8–668
Progress of NASA Research on warm fog properties and modification concepts, 21.6–576
Relay Program: final report, 21.1–156
Remote sensing of Earth resources: a literature survey with indexes, 21.12–29R
Status of passive inflatable falling-sphere technology for atmospheric sensing to 100 km, 21.11–29
Surveyor: program results, 21.5–697
See also **Kolker, M.,** 21.2–22
U.S. National Aeronautics and Space Adm. Wallops Sta., Wallops Island, Va., *see* **Japan–United States Met. Rocket Project,** 21.1–145
U.S. National Air Pollution Control Administration
Air quality criteria for particulate matter, 21.5–298
Air quality criteria for sulfur oxides, 21.7–152
Air quality data from the National Air Surveillance networks and contributing state and local networks, 21.12–268
Control techniques for particulate air pollutants, 21.8–152
Report for consultation on the Metropolitan Detroit–Port Huron intrastate air quality control region, 21.6–187
See also **U. S. Air Resources Lab., Cincinnati, Ohio,** 21.2–57
U.S. National Council on Marine Resources and Engr. Development
Marine research, fiscal year 1968, 21.4–634
U.S. National Environmental Satellite Center, Washington, D. C.
ESSA direct transmission system users guide, 21.5–102
Publications by staff members and final reports on contracts and grants sponsored by the Center, 1969, 21.9–146R
Publications by staff members, National Environmental Satellite Center and final reports on contracts and grants sponsored by the National Environmental Satellite Center, 1968, 21.9–147R
Satellite activities of ESSA 1968, 21.1–157
U.S. National Meteorological Center
Monthly mean 100-, 50-, 30-, and 10-milli-

bar charts and standard deviation maps, 1966–1967, 21.5–147
Weekly synoptic analyses, 5-, 2-, and 0.4-millibar surfaces for 1966 [based on meteorological rocketsonde and high-level rawinsonde observations], 21.3–219

U. S. National Oceanographic Data Center
Highlights, July 1, 1968–June 30, 1969, 21.2–659
Midlines and models for Pacific Ocean, 21.3–770
Velocity profile atlas of the Mediterranean and Black Seas, 21.4–663

U. S. National Oceanographic Instrumentation Center, Washington, D. C.
National Oceanographic Instrumentation Center, 21.2–692

U. S. National Space Science Data, Greenbelt, Md.
Data catalog of satellite and rocket experiments, 21.9–161R
Data catalog of satellite experiments, 21.9–165R

U. S. Naval Oceanographic Office
BIRDS EYE 3-69, March 23–April 22, 1969, 21.12–18R
Historical environmental data, East China Sea–Yellow Sea, Area 16, 21.9–673
Radio weather aids, 21.6–129
Report of the Arctic ice observing and forecasting program, 1968, 21.9–185R
U. S. Naval Oceanographic Office's Deep Ocean Survey Project, 21.3–778

U. S. Naval Research Lab.
NRL Space Research Seminar, 21.3–139

U. S. Naval Support Force, Antarctica
Introduction to Antarctica, 21.9–40

U. S. Naval Weather Service, Asheville, N.C.
Guide for improvement of surface and upper air records, 21.9–106R
Summary of synoptic meteorological observations, North American coastal marine areas, Vol. 1–10, 21.11–59

U. S. Navy Underwater Sound Lab., New London, Conn.
Variation of sound velocity and temperature in the Mediterranean and Black Seas, 21.3–771

U. S. Office of Atmospheric Water Resources
Project Skywater Special Park Range Cooperative Experiment No. 1, Jan. 15–Feb. 19, 1968: summary report, 21.8–129

U. S. Office of Federal Coordinator for Meteorological Services and Supporting Research
Federal plan for upper air observations above 30 kilometers, fiscal years 1969–1973, 21.8–22

U. S. Office of Saline Water
Saline Water Conversion Report for 1968, 21.2–713

U. S. Pacific Northwest River Basins Commission
Climatological handbook, Columbia Basin States, Vol. 1, Temperature, Pts. A–B, 1969, 21.8–516

U. S. President's Council on Recreation and Natural Beauty
From sea to shining sea, 21.4–414

U. S. President's Space Task Group
Post-Apollo space program: directions for the future, 21.8–669

U. S. Soil Conservation Service
Soil survey [of] Woodruff County, Arkansas, 21.10–409
See also **Federal–State–Private Cooperative Snow Surveys,** 21.1–627

United States of America Standards Inst., *see* **Cottrell, W. B.,** 21.5–360

U. S. Water Resources Council
General water conditions of the United States, 21.11–95

U. S. Weather Bureau
ESSA Weather Bureau policy on industrial meteorology, 21.3–32
Federal meteorological handbook, No. 1, Surface observations, 21.10–51R
Final Report [on] Test and evaluation of a facsimile bandwidth compression technique, 21.10–97
The Great Lakes ice season of 1969, 21.7–821
Hurricane "Camille" August, 14–22, 1969, 21.5–421
Introduction to weather radar, 21.6–46
Numerical weather prediction activities, National Meteorological Center [for] first half of 1969, 21.9–124R
Operations of the Weather Bureau, 21.10–56R
Plan for improving the national river and flood forecast and warning service, 21.8–788
Precipitation-frequency maps for Colorado, 21.1–609
Resume of the heavy snowfall and persistent cold of the winter of 1968–1969 in the upper midwest and the flood situation resulting therefrom, 21.2–16

Untersteiner, Norbert
  Arctic Ice Deformation Joint Experiment (AIDJEX) (*with* **Hunkins, K. L.**), 21.11–755
  Sea ice and heat budget, 21.7–826
  See also **Maykut, G. A.**, 21.5–782
Unti, T., *see* **Atkinson, G.**, 21.12–314
Unz, F.
  Konzentration des Aerosols in Troposphäre und Stratosphäre aus Messungen der Polarisation der Himmelsstrahlung im Zenit [Tropospheric and stratospheric concentration of aerosol obtained from daytime measurements of sky polarization in the zenith], 21.5–299
Upsenskiĭ, B. D.
  O novoĭ aerologicheskoĭ diagramme [A new aerological diagram], 21.3–54
Urabe, Tatsuo
  Daily variation in the temperature of the Cytherean atmosphere, 21.10–610
Uralov, N. S.
  Kharakter i prichiny izmenchivosti ledovitosti u vostochnykh beregov Grenlandii [Nature and causes of variability of the ice state at the eastern coasts of Greenland], 21.9–670
Ural'skaia, V. S.
  Evoliutsiia orbit okolopoliarnykh sputnikov pod vliianiem lunno–solnechnykh vozmushcheniĭ [Evolution of the near polar satellite's orbits under the influence of lunar–solar perturbation] [and English transl.], 21.3–166
Urbarz, H.
  Weissenau Solar Radio Astronomy Observatory, 21.3–721
Urch, I. H.
  Model of the magnetized solar wind, 21.6–418
Ur'eva, B. R.
  Evoliutsiia srednikh mesiachnykh voln davleniia na severnom polusharii i prognoz temperatury na mesiats [Evolution of average monthly pressure waves in the Northern Hemisphere and forecast of temperature by the month], 21.3–284
  Ispol'zovanie evoliutsii dlinnykh voln dlia prognoza temperatury vozdukha na sezon [Use of the evolution of long waves to forecast air temperature by season], 21.3–285
Urey, Harold C.
  Early temperature history of the Moon, 21.4–481
  Geophysics of the Moon (*with* **MacDonald, G. J. F.**), 21.10–603
  Origin and history of the Moon, 21.4–478
Urone, Paul
  SO_2 in the atmosphere: a wealth of monitoring data, but few reaction rate studies (*with* **Schroeder, W. H.**), 21.1–276
  Static studies of sulfur dioxide reactions in air (*with others*), 21.5–300
Uruguay [Office of Planning and Budget]
  General water conditions in Uruguay, 21.11–95R
Uryvaev, A. P.
  Khimicheskoe kachestvo rechnykh vod severo-vostoka SSSR [Chemical quality of river waters in the northeastern U.S.S.R.], 21.2–574; 21.9–91R
  Quantitative relationships between mineralization and chemical composition of river water in the Northeastern U.S.S.R., 21.9–92R
Uryvaev, V. A.
  Determination of flood discharges using aerial survey (*with* **Lukashenko, G. M.**), 21.7–812
Ushijima, T.
  Analytical study of the low-level jet stream, 21.5–525
  Wind direction oscillations in the flank of thunderstorm outflow, 21.3–481
Ushintseva, V. F., *see* **Dzhuraev, A. D.**, 21.9–112; **Kurbatkin, V. P.**, 21.9–110
Usikov, A. Ia.
  Investigation of absorption and scattering of millimeter waves in precipitations, Pt. 1–2 (*with* **German, V. L.** and **Fakser, I. Kh.**) [Transl. from Russian], 21.5–611
Usol'tsev, V. A.
  Podogrevnoĭ elektroliticheskiĭ chuvstvitel'nyĭ element tochki rosy i sposoby ego vkliucheniia [A sensitive heated electrolytic element for dew-point determination and its connection], 21.5–130
Uspenskiĭ, B. D.
  Kolichestvennyĭ prognoz oblozhnykh i livnevykh osadkov [Quantitative forecast of continuous and shower precipitation], 21.11–113
Uthe, Edward E., *see* **Johnson, Warren B., Jr.**, 21.8–27; 21.10–141
Utina, Z. M.
  Opyt rascheta sostavliaiushchikh balansa energii turbulentnosti [Experience in

calculating the components of the energy balance of turbulence], 21.7–231
See also **Bortkovskii, R. S.**, 21.9–15R; **Gorbunova, I. G.**, 21.10–555

Uttinger, H.
Zahl der Tage mit Windspitzen von mindestens 20 Metern pro Sekunde in Zürich (1934–1967) [Number of days with a wind speed of at least 20 m/sec in Zurich (1934–1967)], 21.3–615

Uvarov, D. B.
Determination of the positions of artificial noctilucent clouds or positions of meteor trains by transformation of coordinates, 21.10–485
See also **Andreeva, L. A.**, 21.12–39

Uziel, J.
Sea level at Ashdod and Elat, 21.4–657

V

Vachaud, G.
Écoulements non permanents des nappes à surface libre prise en compte de la zone non saturée: critique des modèles analogiques classiques [Flow of nonpermanent free surface aquifers considering the unsaturated zone: critique of classical analog models] (*with* **Thony, J. L.**), 21.1–785

Vadot, L.
Application d'une analogie hydraulique à la diffusion atmosphèrique [Application of a hydraulic analogy to atmospheric diffusion], 21.3–336
Étude de la diffusion des fumées et détermination de la hauteur d'une cheminée [Investigation of smoke dispersal and determination of the height of a chimney] (*with* **Belle, P.** and **Inard, A.**), 21.6–490

Vager, B. G.
Dinamika turbulentnogo pogranichnogo sloia v prilivnom potoke [Dynamics of turbulent boundary layer in tidal current] (*with* **Kagan, B. A.**), 21.1–752
Opredelenie kharakteristik turbulentsnosti raspredelenie skorosti prilivnogo potoka v glubokom more [Computation of turbulence parameters and velocity distribution in deep sea tidal flow] (*with* **Kagan, B. A.**) [and English transl.], 21.4–770

Vaidyanathan, M.
Unusual type of dust haze over Jodphur Airfield and neighborhood on May 13, 1963, 21.8–576

Vaĭnshteĭn, L., *see* **Beĭgman, I.**, 21.12–640

Vaĭnshteĭn, S. I.
K voprosu o dinamike magnitnogo polia v turbulentnoĭ srede [Dynamics of the magnetic field in the turbulent medium], 21.1–683

Väisälä, Vilho
Instrument problems on radiosonde measurements at 10 mb and above, 21.12–104

Vaisala News [Helsinki]
Ground stations for weather satellites, 21.3–153

Vaksenburg, S. 1.
Ob odnom metode umen'sheniia mertvoĭ zony meteorologicheskogo radiolokatora [A method for reducing the dead zone of a meteorological radar] (*with others*), 21.1–202
See also **Shevela, G. F.**, 21.1–200

Valente, Neto
L'hydrologie du Cap Vert et l'eau pour la paix [Hydrology of Cape Verde and water for peace], 21.7–664

Valenzuela, G. R.
Study of Doppler spectra of radar sea echo (*with* **Laing, M. B.**), 21.5–800

Vali, Gabor
Automated drop freezer system for determining the freezing nucleus content of water (*with* **Knowlton, D.**), 21.10–90
Characteristics of freezing nuclei, 21.12–522

Valiron, F.
Storage of the basic data necessary for a coordinated management of water resources with regard to both quality and quantity, 21.8–780

Valitski, Robert, *see* **Land, Patterson B.**, 21.10–834

Val'mene, E.
Moisture regime of eroded soils in the Lithuanian S.S.R., 21.10–438

Valníček, Boris
"Detwisted" prominence of Sept. 12, 1966, 21.1–707

Van Allen, James A.
North Liberty Radio Observatory of the University of Iowa (*with* **Wende, C. D.** and **Mosier, S. R.**), 21.3–716
Particle description of the magnetosphere, 21.3–532
Solar flare of July 8, 1968 (*with* **Wende, C. D.**), 21.2–153
See also **Yeh, R. S.**, 21.4–479

Van Atta, C. W.
Some measurements of multi-point time correlations in grid turbulence (*with* **Yeh, T. T.**), 21.11–243

Van Cauwenberghe, A. R.
Natural and artificial radioactivity of the air in Ghent, Belgium (*with* **Bosch, F. M.**), 21.7–220
Van Cawenberghe, D. A., *see* **Davies, A. F.**, 21.11–25
Van De Hulst, H. C., *see* **Danielson, R. E.**, 21.3–504
Van der Borght, R.
Effect of a magnetic field on the convective instability of a compressible polytropic atmosphere, 21.8–713
Vanderburgh, Richard C.
Wide-band (visual-spectrum) photoelectric photometry of the Pageos balloon saellite during its first 15 months in orbit, 21.3–167
Van Der Hage, J. C. H.
Variation on Schaefer's formvar technique for obtaining replicas of small ice crystals, 21.4–8
Van Der Ham, C. J.
Stralingsmetingen vanuit weersatellieten II [Radiation measurements from weather satellites, Pt. 2], 21.10–266
Van der Hoeven, P. C. T.
Klimaatbeschrijving van het Deltagebied (luchttemperatuur) [Climatology of the Rhine delta region (air temperature)], 21.8–317
Van der Hoven, I. (ed.)
Atmospheric transport and diffusion in the planetary boundary layer, 21.4–209
Atmospheric transport and diffusion in the planetary boundary layer: Semiannual Research Program Review, Jan.–June 1969, to the U. S. Atomic Energy Commission, 21.8–334
Van der Made, J. W.
Assessment of a design discharge of a river, 21.6–756
Vanderman, Lloyd W., *see* **Shuman, Frederick G.**, 21.8–100, –109
Van Der Veen, K., *see* **Expédition Antarctique Belgo-Néerlandaise, 1965,** 21.6–48
Van Der Westhuizen, M.
Radioactive nuclear bomb fallout, 21.3–409
Van Donk, Jan
Oxygen isotope compositions of foraminifera and water samples from the Arctic Ocean (*with* **Mathieu, G.**), 21.4–744
Vandova, M.
Vürkhu tochnostta na izmervaneto na vlagata v niakoi pochveni raznovidnosti [The accuracy of measurement of moisture in some soil varieties], 21.7–657
Vandrey, J. F.
Dynamics and aerodynamics of drop sondes in the lower Venus atmosphere, 21.9–511
Van Eimern, Josef
Die Bedeutung von energieströmen für das Klima und die agrarischen Standortbedingungen [The significance of energy flows for climate and for the conditions of agricultural location], 21.7–696
Van Galen, J.
New method for verifying deterministic predictions of meteorological scalar fields, 21.12–174
Vangelov, Atanas
Method rascheta skorosti raskhodovaniia pochvennoĭ vlagi oroshaemoĭ kukuruzoĭ pri razlichnykh usloviiakh pogody v tsentral'noĭ chasti Severnoi Bolgarii [Method of calculating consumption rate of soil moisture by irrigated maize under varying weather conditions of central Northern Bulgaria], 21.9–360
Uchastie na otdelnite pochveni sloeve vŭv vodosnabdiavaneto na tsarevitsiata pri optimalni usloviia na ovlazhnenie [Participation of the separate layers in the total evaporation of corn (maize) at optimum conditions of moistening], 21.2–246
Vŭrkhu sŭotnoshenieto mezhdu "dolna granitsa na optimalnata vlazhnost" i "vlazhnost na razkŭsvane na kapiliarnata vrŭzka" na pochvite [The correlation between "the lower boundary of optimum moisture" and "moisture of tearing the capillary connection" of soils], 21.1–658
Van Hylckama, T. E. A.
Photosynthesis and water use by saltcedar, 21.2–330
Van'ian, L. L.
Vliianie naklona geomagnitnykh silovykh linii na rasprostranenei napravliaemykh gidromagnitnykh voln v nizhnei ionosfere [Influence of the inclination of geomagnetic lines of force on the propagation of directed hydromagnetic waves in the lower ionosphere] (*with* **Abramov, L. A.**), 21.12–311
Vanichkina, S. I.
Summarnoe isparenie s khlopchatnika v usloviiakh Golodnoi stepi [Evapotranspiration from cotton under conditions in the Golodnaya Steppe], 21.7–539
Vanier, J.
Effects of spectral resolution on total

ozone measurements (*with* **Wardle, D. I.**), 21.1–329
Vanjpe, P. S., *see* **Chiplonkar, M. W.**, 21.2–68
Van Middlesworth, L.
Radioiodine in the biosphere during 1968, 21.3–402
Van Mieghem, J. (ed.) *see* **Advances in Geophysics, N.Y., Vol. 13**, 21.3–2
Van Montfort, M. A. J.
Enige statistische opmerkingen over neerslag en afvoer [Some statistical remarks on precipitation and runoff], 21.5–612
Vanni, Manfredo
Italy, glacier variations 1968, 21.3–755
Van Sickle, Kenneth Lee, *see* **Alberty, Ronnie L.**, 21.11–262
Van Thullenar, C. F., *see* **Fujita, T. T.**, 21.5–422; 21.9–241R
Van Valin, Charles C.
Silanes as cloud stabilizers, 21.8–122
Van Vliet, C. J.
Algorithm for estimating the isothermal layer depth of a digitized bathythermograph, 21.4–711
Van Wichelen, S., *see* **Cauwenberghe, A. R.**, 21.6–255
Vanzandt, T. E., *see* **Peterson, V. L.**, 21.6–237
Van Zinderen Bakker, Eduard Meine
Palaeoecology of Africa and of the surrounding islands and Antarctica. Vol. 2, Covering the years 1964 and 1965, 21.1–22
Varbanets, T. V.
Chislo dneĭ s osadkami razlichnoĭ obespechennosti na territorii Severnogo Kazakhstana [The number of days with precipitation of different probability in Northern Kazakhstan], 21.9–306
Vardanian, Iu. S., *see* **Alekseeva, L. M.**, 21.5–336
Varga Haszonits, Zoltán
Determination of the water content and of the evaporation of bare soil, 21.9–361
Varma, R. K.
Radiative transfer effects in natural convection above fires: general case (*with others*), 21.11–354
Vartazarov, S. Ia.
Zadachi geografo-gidrometeorologicheskikh izyskanii pri kompleksnom ispol’zovanii vodnykh resursov [Tasks of the geographic hydrometeorological survey with the complex utilization of water resources] (*with* **Reteium, K. F.** and **Chutkina, L. P.**), 21.7–640
Vas, Daniele, *see* **Fukai, Rinnosuke**, 21.9–688
Vasil’ev, A. A.
Otsenka effektivnosti sinopticheskikh kriteriev sushchestvovaniia turbulentnosti pri iasnom nebe [The evaluation of the effectiveness of synoptic criteria for clear sky turbulence], 21.7–479
Otsenka parametrov turbulentnosti pri iasnom nebe, uchityvaiushchikh gorizontal’noe raspredelenie vetra i temperatury [Evaluation of turbulence parameters during clear-sky conditions by taking into account horizontal wind and temperature distribution], 21.12–474
Sluchai sil’noi turbulentnosti pri zakhode samoleta na posadku [Case of severe turbulence during the descent of a plane for landing] (*with* **Glazunov, V. G.** and **Chuchkalova, N. N.**), 21.9–254
Vasil’ev K. P.
Ispol’zovanie nabliudeniĭ meteorologicheskikh sputnikov Zemli dlia obsluzhivaniia moreplavaniia [Using meteorological satellite observations for services to navigation], 21.3–168
Vasil’ev, V. V.
Nekotorye dannye o vremennykh korreliatsionnykh sviaziakh temperatury v svobodnoĭ atmosfere [Some data on the temporal temperature correlations in the free atmosphere], 21.9–248
Vasil’eva, G. I., *see* **Korobova, Z. B.**, 21.6–719
Vasil’eva, K. I.
Condensation stage of the cloud spectrum development and the semi-analytical method of its investigation (*with* **Sedunov, Iu. S.**), 21.12–530
Vasil’eva, L. G.
Vliianie usloviĭ pogody na raspredelenie minimal’noĭ temperatury vozdukha [Influence of weather conditions on the distribution of minimum air temperature], 21.7–441
Vasileva, Svetla
Vŭrkhu roliata na mestnata grŭmotevichna deĭnost vŭv formiraneto na poleto na atmosfernite radiosmushteniia [The role of the local thunder activity at the formation of atmospheric disturbances field in Sofia], 21.2–387
Vasilevskiĭ, L. S.
Ob odnom metode izmereniia zariada i razmera aerozol’nykh chastits v svobodnoĭ atmosfere s samoleta [Charge and cloud particle size aircraft measurements

in the free atmosphere] (*with* **Vetokhin, M. V.**) [and English transl.], 21.5–54

Vas’kov, V. V.

O rasseianii radiovoln na slede dvizhushchegosia v ionosfere tela vblizi kaustiki [Radio-wave dispersion along the wake of a body moving in the ionosphere near the caustic], 21.12–312

O rasseianii radiovoln na slede tela, dvizhushchegosia v ionosfere [The dispersion of radio waves in the wake of a body moving through the ionosphere], 21.7–207

O rasseianii radiovoln na slede vertikal’no dvizhushchegosia tela v neodnorodnoĭ ionosfere [Radio-wave scattering on the trace of a vertically moving body in the heterogeneous ionosphere] [and English transl.], 21.5–356

Ob uchete sferichnosti pri rasseianii radiovoln na slede bystro dvizhushchegosia v ionosfere tela [The accounting for sphericity with radio-wave scattering on the trace of a body rapidly moving in the ionosphere], 21.9–185

Vas’kovskiĭ, M. G.

Mnogoletnie kolebaniia godovogo stoka rek Primor’ia [Long-range variations of annual runoff of the Maritime Territory rivers], 21.2–587

Vasseur, G.

Thomson scatter observations of a gravity wave in the ionospheric F-region (*with* **Waldteufel, P.**), 21.9–186

Vents dans la thermosphère déduits des mesures par diffusion de Thomson [Thermospheric winds deduced from measurements by the Thomson scatter technique], 21.9–267

Vassy, A., *see* **Papet-Lepine, J.**, 21.5–228

Vaughan, Leland M., *see* **Murray, J. A.**, 21.6–179

Vaughan, William W., *see* **Fichtl, George H.**, 21.8–330

Vaupel, Albrecht

Wärmesedimentation [Heat sedimentation], 21.6–838

Vavilov, P. P., *see* **Bratsev, L. A.**, 21.5–752

Vazhnov, A. N

K metodike kartografirovaniia koeffitsientov korreliatsii gidrologicheskikh velichin [Approach to the method of mapping of correlation coefficients of hydrological values], 21.10–707

Veal, Donald L., *see* **Auer, August H., Jr.**, 21.10–89R; 21.11–14

Veatch, Fred M.

Analysis of a 24-year photographic record of Nisqually Glacier, Mount Rainier National Park, Washington, 21.12–726

Ved’, I. P.

Osobennosti teplovogo i radiatsionnogo balansa sosnovykh nasazhdeniĭ pri izmorozi [Peculiarities of the heat and solar radiation balance in pine plantations under the conditions of hoar frost], 21.5–427

Vertikal’naia poiasnost’ i proizvoditel’nost’ lesov gornogo Kryma v sviazi s pokazatelem sootnosheniia tepla i vlagi [Vertical belts and forest productivity in high Crimea connected with the heat and moisture ratio], 21.9–401

Vedenskaia, I. E.

O morfoklimaticheskoi zonal’nosti na territorii SSSR [The morphoclimatic zonality in the U.S.S.R.], 21.7–673

Veen, K. van der, *see* **Expédition Antarctique Belgo–Néerlandaise, 1965**, 21.3–120

Veĭt, F. Ia.

K metodike vychisleniia skorosti vertikal’nykh dvizheniĭ vozdukha po izmereniiam s samoleta [A method of calculating the velocity of vertical air movements from measurements made from an airplane] (*with* **Kornienko, E. E.** and **Khusid, S. B.**), 21.10–348

Věková, Nina

Attempt at analyzing the errors of the equivalent barotropic model, 21.1–230

Veldkamp, F. B.

Regen- en rioleringsvraagstukken [Rainfall and sewerage computations], 21.6–600

Velds, C. A., *see* **Schmidt, F. H.**, 21.5–284; **Wisse, J. A.**, 21.12–213

Velichanskiĭ, B. N., *see* **Krinberg, I. A.**, 21.5–351

Velinov, P.

On ionization of the polar ionosphere by solar cosmic-rays, 21.7–424

On the influence of corpuscular fluxes in the magnetosphere on night ionosphere, 21.8–207

O zavisimostiakh mezhdu variatsiiami kosmicheskikh luchei i sostoianiem nizhneĭ ionosfery [The dependence between variations of cosmic rays and the status of the lower ionosphere], 21.5–465

Vliianie Forbush-effektov na sostoianie kosmicheskogo sloia v nizhneĭ ionosfere [The influence of Forbush effects on the

state of cosmic-ray layer in lower ionosphere] (*with others*), 21.11–213
Velinov, Petŭr
O vozdeĭstvii kosmicheskikh lucheĭ na ionosferu vysokikh shirot [Cosmic-ray influence on the high latitude ionosphere], 21.2–81
Vella, P., *see* **Devereux, I.**, 21.10–827
Velte, Waldemar
Konvexität der Eigenkurven beim Bénardschen Problem [Convexity of the eigen curves in the case of the Bénard problem], 21.6–523
Vel'tishchev, N. F.
O griadovoi strukture oblachnosti [The banded structure of clouds] (*with* **Ugriumova, G. V.**, 21.7–574
Ven Der Hoven, Isaac
Wind persistence probability, 21.1–514
Vendrov, S. L.
O budushchem rezhime rechnykh sistem: polovod'ia i pavodki pri upravlenii rechnym stokom ravninnykh rek [Future regime of river systems: spring-floods and freshets with the management of plain river runoff], 21.2–588
Venetis, C.
Note on Moran's probability theory of dams and storage systems, 21.4–605
On the distribution of the frequency of reservoir deficit, 21.4–606
On the impulse response of an aquifer, 21.2–559
Vengerskaia, Kh. Ia.
K voprosu opredeleniia benzina v vozdukhe rabochikh pomeshcheniĭ [Detection of benzine in the air of working premises] (*with* **Tarasov, V. V.**) [and English transl.], 21.5–301
See also **Tarasov, V. V.**, 21.6–185
Venkataraman, S., *see* **Gangopadhyaya, M.**, 21.5–558; **Jayaraman, S.**, 21.7–475
Venkatesan, D., *see* **Balasubrahmanyan, V. K.**, 21.10–290
Ventura, Eduárd
A villamok gyakorisága és kapscolatuk a zivatarok labilitási energiájával [Frequency of lightning discharges and its relation to the liability energy of thunderstorms], 21.8–641
Verband Deutscher Meteorologischer Gesellschaften, Hamburg, April 1–6, 1968
Meteorologen–Geophysiker-Tagung [Meteorological–geophysical meeting], 21.6–5
Verdou, J. P., *see* **Larivière, G.**, 21.3–679
Veredchenko, Iu. P.
Physical properties and water-temperature regimes of red ferralite–calcium clay soils in Cuba, 21.8–498
Verenchikov, N. N.
On the problem of averaging in measuring hydrometeorological fields, 21.11–31R
Vereshchagin, M. A.
O divergentsii gorizontal'nykh potokov tepla v atmosfere i otsenka vertikal'nykh perenosov tepla na urovne poverkhnosti 50 mb [Divergence of horizontal heat fluxes in the atmosphere and an evaluation of the vertical transport of heat at the 500-mb surface level], 21.7–244
O gorizontal'nykh perenosakh skrytogo tepla v atmosfere [Horizontal transport of latent heat in the atmosphere], 21.7–245
Verfaillie, G. R. M.
Correlation between the rate of growth of rice seedlings and the P-indices of the chemical test of Piccardi: a solar hypothesis, 21.8–566
Vergez, Madeleine
Contribution à la mesure de la température des nuages effectuée depuis le sol [Measurement of cloud temperatures from the ground], 21.7–24
Étude microphotographique des gouttelettes nuageuses et de leurs résidus [Microphotographic study of cloud droplets and their residues], 21.10–376
Vering, Fritz
Marius Kaiser und die Bioklimatologie [Marius Kaiser and bioclimatology], 21.9–153R
Verma, A. P.
Laplace transform solution of a one dimensional groundwater recharge by spreading, 21.5–756
Verma, S. D., *see* **O'Connell, R. F.**, 21.10–299
Vermillion, Charles H.
Weather satellite picture receiving stations: inexpensive construction of automatic picture transmission ground equipment, 21.1–158
Vernov, S. N.
Earth's radiation belts, 21.9–229
Rezul'taty izmereniĭ bystrykh zariazhennykh chastits na sputnike "Kosmos-137" [Results of measuring quick charged particles aboard the Cosmos-137 satellite] (*with others*) [and English transl.], 21.2–154
Study of solar and cosmic radiation from the Venus-4 space probe (*with others*), 21.10–306

Veronis, George, *see* **Keller, J. B.,** 21.1–736; **Kuo, Han Hsiung,** 21.12–755; **Sundqvist, Hilding,** 21.12–135

Verploegh, George
Phosphorescent wheel, 21.2–705

Verruijt, Arnold
Interface problem with a source and a sink in the heavy fluid, 21.12–688
Note on the Ghyben–Herzberg formula, 21.1–792

Verschuren, Jacobus Petrus
Stochastic analysis of precipitation, 1968, 21.8–399

Verschuure, J.
Replika's van ijskristallen [Replicas of ice crystals], 21.4–267

Vershinin, A. P.
Gorizontal'naia izmenchivost' ispareniia na oroshaemykh sel'skokhoziaistvennykh poliakh [Horizontal variability of evaporation on irrigated agricultural fields], 21.9–282
Teplo-vodnobalansovye issledovaniia na risovykh plantatsiiakh v Kzyl-Kumakh [Thermal water balance research on rice plantations in the Kyzyl Kum] (*with* **Levchenko, G. P.** and **Emets, V. P.**), 21.5–435

Verssen, Julien A., *see* **George, Ralph E.,** 21.8–138

Vertlib, A. B.
Nekotorye osobennosti zimnikh potepleniĭ v stratosfere nad Irkutskom [Some features of winter stratospheric warmings over Irkutsk] (*with* **Kalinovskaia, G. P.**), 21.3–562

Verzár, F.
Atmosphaerische Beimengungen der Hoehenluft und ihre Wirkung [Pollutants in mountain air and their effect], 21.7–153

Vesecky, John F.
Radio-frequency synchrotron radiation from trapped electrons above the auroral zones, 21.2–388

Veselov, E. P.
O vliianii rel'efa na pole vetra v raĭone Belogo moria [Effect of relief on the wind field in the area of the White Sea], 21.1–504
Primenenie metoda ekstrapoliatsii dlia prognoza vetra [Using extrapolation methods in wind forecasting], 21.1–236
Vychislenie polei vetra dlia rascheta shtormovykh nagonov moria [Calculation of wind fields for estimating storm winds on the sea] (*with* **Rybak, B. Kh.**), 21.12–481

Veselova, G. K.
Analiz uslovii vypadeniia sil'nykh osadkov na st. Lenkoran' period 11–14 sentiabria 1966 g. [Analysis of the conditions of heavy precipitation in the city of Lenkoran', Sept. 11–14, 1966], 21.12–397
Ob utochenii rascheta stratifikatsii temperatury i vlazhnosti na elektronnoi vychislitel'noi mashine [Refining the calculation of temperature and humidity stratification on an electronic computer], 21.12–455

Veshnikov, V. B., *see* **Barabanov, I. R.,** 21.10–92

Vetlov, I. P.
Infrakrasnaia apparatura sputnikov sistemy "Meteor" [Infrared equipment of "Meteor" system satellites], 21.11–83

Vetokhin, M. V., *see* **Vasilevskiĭ, L. S.,** 21.5–54

Vette, James I. *see* **Lavine James P.,** 21.8–284

Vial'tsev, V. V.
Rasseianie vodnogo tumana zvukovymi kolebaniiami [The dispersion of water fog by acoustic oscillations], 21.11–137

Vial'tseva, E. E., *see* **Byzova, N. L.,** 21.3–500

Viessman, Warren Jr., *see* **Abdel-Razaq, A. Y.,** 21.6–625

Viet Nam. Ministry of Public Works
General water conditions of South Viet Nam, 21.11–95R

Vietoris, L.
[Obituary of] **Richard Finsterwalder,** 21.3–751

Viezee, W.
Objective methods of analyzing and forecasting tropical weather (*with* **Endlich, R. M.** and **Mancuso, R. L.**), 21.2–38

Vigla, Dominique, *see* **Bricard, Jean,** 21.12–235

Vigneron, Jacques
Développement successif des émissions électromagnétiques (U.B.F. et T.B.F.) et lumineuses au cours des sous-orages magnétiques [Successive development of electromagnetic (ULF and VLF) and luminous emissions during magnetic substorms], 21.5–734

Vigroux, E.
Coefficients d'absorption de l'ozone dans la bande de Hartley [Absorption coefficients of ozone in the Hartley band], 21.8–157
Distribution verticale de l'ozone atmosphérique d'après les observations en

émission et en absorption de la bande 9.6 μ [Vertical distribution of atmospheric ozone on the basis of observations of emission and absorption in the 9.6-μ ozone band], 21.5–335

Vikramsingh, Rajendra
Terrain scattering of VHF waves in mountainous regions, 21.10–568

Viktorova, A. A.
O pogloshchenii radiovoln vodianymi parami v atmosferakh Venery i Marsa [Radio-wave absorption by water vapor in Venus and Mars atmospheres] (*with* **Naumov, A. P.**) [and English transl.], 21.2–443

Vilentchuk, I.
Desalted water for Israel's agriculture, 21.8–838

Vil'kens, A. A.
Metod opredeleniia temperatury poverkhnosti vody malykh i bol'shikh vodoemov po dannym meteorologicheskikh stantsiĭ [Method of determining the surface temperature of small and large reservoirs according to data from meteorological stations], 21.1–98
Ob osnovanie metodiki ucheta vliianiia ploshchadi i glubiny vodoema na intensivnost' ispareniia [Basis for the method of taking into account the influence of area and depth of a reservoir on evaporation intensity] (*with* **Konstantinov, A. R.**), 21.2–247
Zavisimost' prodolzhitel'nosti perioda ledostava vodoemov ot ikh glubiny i kilmaticheskikh usloviĭ [Dependence of the duration of the icing period of reservoirs upon their depth and climatic conditions], 21.5–783

Villa Nova, N. A.
Estimativa do balanço de radioção em Piracicaba, Saõ Paulo [Estimated radiation balance in Piracicaba, Saõ Paulo], 21.12–404

Villard, O. G., Jr.
Progress in ionospheric radio, 21.9–187

Villat, Philippe
L'activité océanographique française et son développement depuis 1961 [French oceanographical activity and its development since 1961], 21.12–30R

Villeneuve, G. Oscar
Feuillaison et défoliation des feuillus au Québec [Foliation and defoliation of deciduous trees in Quebec], 21.12–58

Villmann, Ch. I.
Statistical data on the occurrence of noctilucent clouds during the IQSY, 1964–1965, 21.8–589

Vimberg, G. P.
Probability of detection of cloudiness and underlying surface by the IR-system signals (*with* **Ivanov, V. I.** and **Puchkov, V. V.**), 21.11–32R
Statistical characteristics of the scanning infrared equipment signals (*with others*), 21.11–33R

Vincent, Dayton G.
Mean meridional circulations in the Northern Hemisphere lower stratosphere during 1964 and 1965, 21.1–531
See also **Kidson, J. W.**, 21.1–383; **Newell, Reginald E.**, 21.10–235

Vincent, R. A.
Criterion for the use of the multilayer approximation in the study of acoustic–gravity wave propagation, 21.1–363
See also **Manson, A. H.**, 21.6–235

Vinje, Torgny E.
Sea ice observations in 1968, 21.12–732
Some observations of the ice drift in the East Greenland current, 21.12–728

Vinnichenko, N. K.
Turbulentnost' v svobodnoĭ atmosfere [Turbulence in the free atmosphere], 21.12–475

Vinnikov, K. Ia.
Sredniĭ energeticheskiĭ balans atmosfery i sistemy Zemlia–atmosfera [Mean energy balance of the atmosphere and of the Earth–atmosphere system], 21.12–407

Vinogradov, A., *see* **Beĭgman, I.**, 21.12–640

Vinogradov, B. V.
Vozmozhnosti interpretatsii izobrazheniĭ Zemli iz kosmosa, nabliudaemykh v raznykh zonakh spektra [Possibilities of interpretation of Earth's images as viewed from space in various spectral zones] (*with* **Kondrat'ev, K. Ia.** and **Stepanenko, D. V.**), 21.1–159

Vinogradov, Iu. B.
Method of computing rainfall floods characteristics, 21.7–646

Vinogradov, V. V.
Nekotorye rezul'taty ispol'zovaniia effekta Dopplera dlia nekontaktnykh izmereniĭ morskogo volneniia [Some results of the use of Doppler effect for the noncontact measurements of the sea waves] (*with* **Lazarenko, N. N.**) [and English transl.], 21.4–651

Vinogradova, M. B.
O nekotorykh osobennostiakh polia radiovoln pri difraktsii na reguliarnom fazo-

vom ekrane [Some peculiarities of the radio-wave field during diffraction on a regular phase screen] [and English transl.], 21.3–396

Vinokurova, D. V.
  Prozrachnost' atmosfery na territorii Verkhne-Volzhskogo upravleniia gidrometsluzhby [Atmospheric transparency in the area of the Upper Volga hydrometeorological service administration], 21.2–125

Virgo, S. E., *see* **Gordon, J.**, 21.9–87; **Steele, L. P.**, 21.9–90

Visconti, Italo
  Esempio di analisi particolareggiata: la ciclogenesi nel Golfo di Genova del 4–6 marzo 1964 [Example of detailed analysis: cyclogenesis in the Gulf of Genoa March 4–6, 1964] (*with* **Pirro, R.**), 21.1–398
  Esempio di analisi particolareggiata: la tempesta avvettiva dell' 8 giugno 1964 nell'alto e nel medio Adriatico [Example of detailed analysis: the advective storm of June 8, 1964 in the northern and central Adriatic Sea] (*with others*), 21.12–375
  Importanza ed utilizzazione delle informazioni meteorologiche segnalate dalla stampa nazionale [Importance and use of meteorological information reported in the national press] (*with* **Cannata, P.**), 21.4–25

Vishnevskii, P. F.
  Osobennosti postroeniia ravnoobespechennykh gidrografov livnevykh pavodkov [Construction features of isoprobable hydrographs of thunderstorm floods] (*with* **Shcherbak, G. M.**), 21.12–673
  Reduktsiia maksimal'nogo livnevogo stoka v Karpatakh [Recession of maximal cloudburst runoff in the Carpathian Mountains], 21.5–652

Visser, S. A.
  Environmental factors influencing the occurrence, distribution and activity of micro-organisms in soils with special reference to waterlogged environments, 21.4–399

Visser, W. A.
  New developments in groundwater studies in the Netherlands, 21.7–793

Viswanadham, Y.
  Relation between solar radiation and hours of bright sunshine at some tropical stations (*with* **Ramanadham, R.**), 21.3–502
  Study of sensible fluxes from different climatic stations (*with* **Ramanadham, R.**), 21.7–246

Viswanathan, K. S.
  Note on auroral electrons (*with* **Rajappa, N.**), 21.11–526

Vita-Finzi, C.
  Mediterranean monoglacialism, 21.9–378

Vitek, V.
  A simple model of a certain type of frontal wave in the atmosphere, 21.10–259

Vitiniskii, Iu. I.
  On the problem of active longitudes of sunspots and flares, 21.11–628
  Solar cycles, 21.10–645

Vitlina, R. Z.
  Rezonansnye svoĭstva cherenkovskogo islucheniia na prodol'nykh volnakh [Resonance properties of Čerenkov radiation at longitudinal waves] (*with* **Zhelnov, B. L.**), 21.7–327

Vittum, M. T., *see* **Peck, N. H.**, 21.1–139

Vivian, Huguette, *see* **Peguy, Ch. P.**, 21.6–603

Vivian, Robert
  Fiches des glaciers français: glaciers des Bossons et de Taconna [Index of French glaciers: the glaciers of Bossons and of Taconna], 21.9–203R
  Fiches des glaciers français: le glacier de Gebroulaz [Data sheets of French glaciers: Gebroulaz glacier], 21.1–760
  Fiches des glaciers français: le glacier du Mulinet [Data sheets of French glaciers: Mulinet glacier], 21.1–761
  Hydrologie: géographie des températures d'un cours d'eau glaciaire népalais, la Modi Khola [Hydrology: geography of the temperatures of Népalese glacier streams, the Modi Khola], 21.11–102R

Vivona, F. M.
  Influenza della luna sull'attività aurorale della terra [Influence of the Moon upon the auroral activity of the Earth], 21.2–377
  See also **Colacino, M.**, 21.7–138; 21.10–316

Vladimirov, L. A.
  Vodnyĭ balans bol'shogo kavkaza po prirodnym vysotnym poiasam [The water budget of the Greater Caucasus in natural altitude belts], 21.12–488

Vladimirov, O. A.
  Temperatura i solenost' vod Karibskogo moria i Meksikanskogo zaliva [Temperature and salinity of waters of the Caribbean Sea and Gulf of Mexico]

(*with* **Buinevich, A. G.** and **Travkina, L. V.**), 21.9–729
Vladimirov, Vladimir, *see* **Joachim, Miroslav,** 21.8–182
Vladimirskiĭ, B. M.
O kharaktere izmeneniĭ sutochnoĭ variatsii kosmicheskikh lucheĭ vo vremia magnitnykh bur' s vnezapnym nachalom [The nature of the changes in cosmic-ray diurnal variation during magnetic storms with sudden commencement] (*with* **Pankratov, A. K.** and **Stepanian, A. A.**), 21.9–235
See also **Pankratov, A. K.,** 21.10–301
Vlasova, O. K., *see* **Gusev, V. D.,** 21.10–572
Vlasova, V. A.
Agrometeorologicheskie usloviia formirovaniia vskhodov kartofelia i vliianie srokov ikh poiavleniia na urozhaĭ kul'neĭ na Kraĭnem Severa Evropeĭskoĭ Territorii SSSR [Agrometeorological conditions for the formation of potato sprouts and the effect of the time of their appearance on the tuber harvest in the far north of the European U.S.S.R.], 21.9–402
Vodogretskiĭ, V. E.
Rezul'taty vodno-balansovykh issledovaniĭ na uchastke r. Turgaĭ v raĭone peskov Tusum [Results of water-balance investigations on a sector of the Turgai River in the Tusum sand region], 21.4–578
Voege, F. A.
New tools for detecting and measuring environmental contaminants (*with* **Neil, J. H.** and **Harris, A. J.**), 21.4–411
Voegeli, Paul T., Sr.
Occurrence and distribution of molybdenum in the surface water of Colorado (*with* **King, R. U.**), 21.12–696
Vogelsanger, E., *see* **Berger, K.,** 21.8–623
Vogler, L. E.
Tropospheric pulse propagation, 21.7–155
Vohra, K. G.
Role of natural ionization in the formation of condensation nuclei in the atmospheric air (*with* **Subba Ramu, M. C.** and **Vasudevan, K. N.**), 21.9–287
See also **Rangarajan, C.,** 21.12–349; **Subba Ramu, M. C.,** 21.4–80
Voigt, K.
Salinity–temperature–velocity profiles in the equatorial waters of the Gulf of Guinea areas (*with others*), 21.3–774
Voĭnov, S. S.
Noctilucent cloud patrol in Novosibirsk during 1963–1967 (*with* **Malkov, E. I.**), 21.10–486
See also **Belkin, A. D.,** 21.10–479
Voĭnova, T. A.
O meteorologicheskom arkhive dlia ispytaniĭ statisticheskikh i veroiatnostnykh metodov prognoza pogody [Meteorological archive for checking statistical and probability methods of weather forecasting] (*with others*), 21.1–255
See also **Kaznacheeva, V. D.,** 21.2–94
Voiron, Henri
Quelques aspects de la météorologie dynamique en Afrique Occidentale [Some aspects of dynamical meteorology in Western Africa], 21.12–370
Voĭt, F. Ia.
Nekotorye rezul'taty issledovaniĭ dinamicheskoĭ struktury kuchevykh oblakov [Some results of research on the dynamic structure of cumulus clouds] (*with* **Kornienko, E. E.** and **Khusid, S. B.**), 21.10–377
Voĭt, S. S.
Difraktsiia neustanovivshikhsia poverkhnostnykh i vnutrennikh voln [Diffraction of unsteady surface and internal waves] (*with* **Sebekin, B. T.**) [and English transl.], 21.2–786
Voitov, V. P., *see* **Mikhailov, V. V.,** 21.10–33R
Volchok, B. A.
Transfer of microwave radiation in clouds and precipitation (*with* **Cherniak, M. M.**), 21.9–93R
Volchok, Herbert L.
Ocean fallout: the Crater Lake experiment, 21.11–220
See also **Kleinman, M. T.,** 21.3–108
Volchok, T. A., *see* **Ponomarev, B. P.,** 21.6–146
Vol'ftsun, I. B.
Sposob rascheta kolebaniĭ urovnia gruntobykh vod v teplyĭ period goda [Method of calculating groundwater level fluctuations during the warm period of the year], 21.6–771
Volker, Al
A short history of hurricanes, 21.8–231
Volkov, Iu. A.
Spektry pul'satsiĭ skorosti i temperatury vozdushnogo potoka nad vzvolnovannoĭ poverkhnost'iu moria [Spectra of velocity and temperature fluctuations in the airflow over the wavy sea surface], 21.7–433

Volkov, N. A.
[Comment on] **A. A. Girs:** Rol' atmosfernoĭ tsirkuliatsii v formirovanii teplovogo rezhima Arktiki and [Reply by] **Girs** (*with* **Gudkovich, Z. M.** and **Smetannikova, A. V.**), 21.5–392

Volkov, V. G., *see* **Rabinovich, Iu. I.,** 21.9–65R

Volkova, S. S.
Kristallizuiushchaia sposobnost' zoleĭ ĭodistogo serebra [The crystallizing activity of silver iodide sols] (*with* **Ovchinnikova, E. N.**), 21.6–160

Volkova, V. I.
Geograficheskie osobennosti zonal'nykh techeniĭ nad territorieĭ SSSR [Geographic characteristics of zonal flow over the U.S.S.R.], 21.11–252

Volkova, Z. F.
Otsenka effektivnosti priema, predlozhennogo E. G. Blokhinovym dlia vychisleniia koeffitsienta izmenchivosti kharakteristik rechnogo stoka pri proizvol'no zakreplennom otnoshenii C_s/C_v [Evaluation of the effectiveness of E. G. Blokhinov's method for computing the coefficient of variation of characteristics of river flow for arbitrarily fixed C_s/C_v ratio], 21.2–589

Volkovitskiĭ, O. A.
Aerodinamicheskaia truba dlia issledovaniĭ s dvukhfaznym potokom [Aerodynamic tunnel for studying two-phase flows] (*with* **Ignatenko, V. I.**), 21.3–419
Issledovanie nachal'noĭ stadii oblakoobrazovaniia v kamere [Investigation of the initial stage of cloud formation in a chamber] (*with* **Laktionov, A. G.**), 21.1–565
O modelirovanii nekotorykh oblachnykh protsessov v kamere [Models for some cloud processes in a chamber], 21.7–570

Volland, H.
Theory of thermospheric dynamics, Pt. 1, 21.6–205
Upper atmosphere as a multiply refractive medium for neutral air motions, 21.1–322

Volland, H. E.
Full wave calculations of coupled neutral air wave propagation through the thermosphere, 21.5–375

Voloshchuk, V. M.
Asimptoticheskoe povedenie dispergirovannoĭ fazy aerodispersnykh sistem [The asymptotic behavior of the dispersed phase of aerodispersed systems], 21.3–337
Issledovanie po aspiratsii aerozoleĭ [Studies on the aspiration of aerosols] (*with* **Levin, L. M.**), 21.3–338
Ob asimptoticheskom sposobe resheniia uraveniĭ Brounovskogo dvizheniia aerozol'nykh chastits [The asymptotic method of solving Brownian motion equations for aerosol particles] [and English transl.], 21.5–302
On the theory of the inertial deposition and aspiration of the aerosol particles (*with* **Levin, L. M.**), 21.12–269

Volynets, L. M.
Rezul'taty sopostavleniia radiolokatsionnykh i osadkomernykh izmereniĭ kolichestva dozhdia [Results of correlation between radar and gage measurement of precipitation amount] (*with* **Markovich, M. L.** and **Muchnik, V. M.**), 21.4–281

Volz, F. E.
Depth and shape of the 0.94-μm water vapor absorption band for clear and cloudy skies, 21.5–51
On dust in the tropical and midlatitude stratosphere from recent twilight measurements, 21.12–270
Some results of turbidity networks, 21.11–493
Twilights and stratospheric dust before and after the Agung eruption, 21.7–706

Von Bezold, Wolfgang
Eine Methode, die Güte von Flugplatzwetter-Vorhersagen (TAF) zu ermitteln (TAF Verification) [A method for determining the quality of airport forecasting (TAF Verification)], 21.1–244

Vonder Haar, Thomas H.
Absorption of solar radiation in tropical regions (*with* **Hanson, K. J.**), 21.1–462
Meteorological applications of reflected radiance measurements from ATS-1 and ATS-3, 21.7–328
Variations of the Earth's radiation budget, 21.8–236
See also **Stamm, Alfred J.,** 21.11–379

Vondráčková, Helena
Předpověď výšky hladiny 300 mb [Forecasting of the altitudes of the 300-mb level], 21.7–82
See also **Čechová, E.,** 21.1–354

Vondrák, Jan
Trajectory of a light ray through the atmosphere as a solution of a system of differential equations, 21.4–369

Von Herzen, R. P.
Heat flow in oceanic regions (*with* **Lee, W. H. K.**), 21.10–829

Von Kilinski, Erich
Die Entwicklung der luftelektrischen Forschung am Potsdamer Meteorologischen Observatorium [Development of atmospheric electricity research at the Potsdam Meteorological Observatory], 21.10–490

Vonnegut, Bernard
Adirondack conference on electrostatics, 21.3–688
Historical note on the nucleation of ice formation by silver iodide, 21.5–576
See also **McTaggart-Cowan, J. D.**, 21.11–98

Von Rosenvinge, T. T.
A comparison of the energy spectra of cosmic-ray helium and heavy-nuclei (*with* **Webber, W. R.**), 21.8–309
Measurements of cosmic-ray Li, Be, and B nuclei in the energy range 100 MeV/nuc to >22 BeV/nuc (*with* **Ormes, J. F.** and **Webber, W. R.**), 21.2–169

Von Rudloff, Hans
Die Abkühlung im nordpolaren Raum und ihre Auswirkung auf die Grosswitterung in Zentraleuropa, 1962–1968 [Cooling in the north polar region and its effects on the large-scale weather patterns in Central Europe, 1962–1968], 21.6–442
Die Pforzheimer Windhose vom 10. Juli 1968 [The Pforzheim tornado of July 10, 1968], 21.6–342

Von Zahn, U.
Mass spectrometric investigation of the thermosphere at high latitudes (*with* **Gross, J.**), 21.3–326
Messungen von Dichte, Zusammensetzung und Temperatur der neutralen Atmosphare im Bereich von 110 bis 160 km Hohe [Measurement of density composition and temperature of the neutral atmosphere at altitudes from 110 to 160 km] (*with* **Gross, J.**), 21.12–281

Von Zweck, Ortwin H.
Observations of propagation characteristics of a wind driven sea, 21.4–752

Vorhis, Robert C.
Groundwater and surface water, 21.2–515

Vorndran, Gerhard
Untersuchungen zur Aktivität der Gletscher, dargestellt an Beispielen aus der Silvretta-gruppe [Research on the activity of glaciers, presented in the example of the Silvretta Group], 21.8–806

Vorob'ev, V. N.
K izucheniiu 19-letnikh prilivnykh kolebanii̮ srednego urovnia moria v vysokikh shirotakh Zemli [Study of nineteen-year tidal variations of the mean sea level in the Earth's high latitudes], 21.11–783

Vorob'eva, E. V.
Opyt sverkhdolgosrochnogo prognoza mesiachnykh summ osadkov na osnove ucheta sopriazhennosti atmosfernykh protsessov [An experiment in extra-long-range prediction of monthly precipitation totals by taking into consideration the coupling of atmospheric processes], 21.7–105
Vremennye izmeneniia prodolzhitel'nosti meteorologicheskikh tsiklov i vozmozhnye ikh prichiny [Time variations of the duration of meteorological cycles and their possible causes], 21.5–393

Vorob'eva, T. F., *see* **Shcheglova, O. P.**, 21.2–594

Vorob'ov, B. M., *see* **Kachurin, L. G.**, 21.1–586

Voronchuk, M. M.
Metod issledovaniia asinkhronnosti kolebanii̮ gidrometeorologicheskikh iavlenii̮ s pomoshch'iu stokhasticheskikh matrits [Stochastic matrix method of studying asynchronism of variations in hydrometeorological phenomena] (*with* **Shveĭkin, Iu. V.**), 21.12–28
See also **Shveĭkin, Iu. V.**, 21.4–584

Voronkov, P. P.
Hydrochemical study of atmospheric precipitation, 21.9–94R

Voronov, G. S.
Iskusstvennoe vozdeĭstvie na gradovye protsessy Moldavii (*with* **Gaĭvoronskii̮, I. I.** and **Seregin, Iu. A.**), 21.10–77R
Radiolokatsionnye issledovaniia gradovykh protsessov v Moldavii̮ [Radar investigations of hail procesess in Moldavia] (*with* **Gaĭvoronskii̮, I. I.**), 21.4–302
See also **Gaĭvoronskii̮, I. I.**, 21.7–119; 21.9–334

Vorontsov, P. A.
Aerological research (*with* **Selezneva, E. S.**), 21.9–95R
O stratifikatsii pogranichnogo sloia v beregovoĭ zone ozera Balkhash [Stratification of the boundary layer in the coastal zone of the Balkhash Lake] (*with* **Selitskaia, V. I.**), 21.7–468

Structure of an airstream as a factor in the transport of products of atmospheric pollution, 21.9–96R

Vorpahl, J.

Identification of the hard X-ray pulse in the flare of September 11–12, 1968 (*with* **Zirin, H.**), 21.11–301

Voskanian, A. G.

Rasshirenie predela izmereniia potentsiometra tipa EPP-09 [Extending measurement limits of the EPP-09 type potentiometer] [and English transl.], 21.4–654

Voskresenskiĭ, A. I.

Aerometeorologicheskie issledovaniia na ekspeditsionnykh sudakh [Aerometeorological investigations on board expeditional vessels], 21.8–42

Iadra kondensatsii v raĭone Mirnogo [Condensation nuclei in the Mirnyy region], 21.9–288

Observatoriia Mirnyĭ aerometeorologicheskie issledovaniia [Mirnyy aerometeorological investigations], 21.8–43

Voskresenskiĭ, K. P.

Computation principles of flood hydrographs, 21.7–782

Vostokova, E. A.

Landshaftnye indikatory voskhodiashchikh rodnidov, v Severnom Priaral'e [Landscape indicators of nongravity springs near the northern Aral Sea area] (*with* **Abrosimov, I. K.**), 21.2–566

Vouk, V. B.

Hydrological aspects of water quality, 21.9–582

Vowinckel, E.

Climate change over the polar ocean, Pt. 2 (*with* **Orvig, S.**), 21.5–367

Climate change over the polar ocean, Pt. 3 (*with* **Orvig, S.**), 21.4–101

Surface heat budgets at Ottawa and Resolute, N.W.T., 21.9–210

Vsekhsviatskiĭ, S. K.

Comets, interplanetary space, and the problems of the solar system, 21.5–713

Vukovich, Fred M.

Physical oceanography feasibility study utilizing NIMBUS-II HRIR satellite data (*with* **Blanton, J. O.**), 21.5–493

Vŭlev, Marko

Vŭrkhu prilozhenieto na metoda na shuliakovski za prognozirane zamrŭzvaneto na nashite iazoviri [The application of Shuliakovskiĭ's method of forecasting the freezing of our dams], 21.2–630

Vul'fson, N. I.

Razrushenie razvivaiushchikhsia konvektivnykh oblakov iskusstvenno sozdannymi niskhodiashchimi struiami [Destruction of developing convective clouds by artificially produced descending jets] (*with others*), 21.11–140

See also **Levin, L. M.**, 21.7–116; **Skatskiĭ, V. I.**, 21.5–601

Vulis, I. L.

Nekotorye rezul'taty prognoza polia geopotentsiala s pomoshch'iu kvazisolenoidal'noĭ modeli [Some results of the geopotential forecast with a quasi-solenoidal model] (*with* **Kliukvin, L. N.**) [and English transl.], 21.3–251

See also **Kondrat'ev, K. Ia.**, 21.6–307

Vuorela, Lauri A.

Statistical investigations on some atmospheric properties above the tropical Atlantic Ocean, Pt. 1 (*with* **Riissanen, J.**), 21.4–167; 21.6–452

Vygodskaia, N. N.

Rezul'taty izmereniĭ radiatsionnykh kharakteristik v slozhnom nasazhdenii [Results of the measurement of the radiation characteristics in complex plant cover], 21.1–434

Vylegzhanina, G. F.

Kachestvennoe opredelenie 0.0-dinetil-2.2 dikhlorvinilfosfata v rastitel'noĭ probe, pochve i vode metodom khromatografii v tonkom sloe [The qualitative determination of 0.0-dimethyl 2.2-dichlorvinyl phosphate in plants, soil and water by the thin-layer chromatography method] (*with* **Kalmykova, R. G.**) [and English transl.], 21.2–398

W

Wachter, Heinz

Empirische Wahrscheinlichkeiten auf Grund ein- und zweidimensionaler, klimatologischer Häufigkeitsverteilungen [Empirical probabilities on the basis of one- and two-dimensional, climatological frequency distributions], 21.6–636

Waco, David E.

Statistical analysis of wind and temperature variables associated with High Altitude Clear Air Turbulence, 21.11–336

Wada, Misuzu

Concerning the mechanism of the decaying typhoon, 21.6–336

Wade, William R.

Design and uncertainty analysis of an im-

proved total hemispherical emittance transient calorimeter (*with* **Progar, D. J.**), 21.4–24
Waer, Richard Dean, *see* **Yaeke, L. A.,** 21.3–782
Waggoner, P. E.
Evaporation of dew (*with* **Begg, J. E.** and **Turner, N. C.**), 21.6–552
Waggott, A.
Investigation of the potential problem of increasing boron concentrations in rivers and water courses, 21.7–810
Wagner, A. James
The weather and circulation of January 1970: record cold in the Eastern third of the nation and record rainfall in the Pacific Northwest, 21.9–246R
Weather and circulation of June 1969: a predominantly cool and wet month, 21.5–151
Wagner, Christian Ulrich
"Semi-annual" variation of the solar daily quiet geomagnetic variation in the European region, 21.5–736
Wagner, R.
Tagesgänge der Temperatur an Bergwiesen und in Wäldern [Diurnal variations of temperature on mountain meadows and in forests], 21.6–441
Wagner, R. A., *see* **Gassmann, G. J.,** 21.9–165; 21.11–186
Wagner, W. Philip
Description and evolution of snow and ice features and snow surface forms on the Kashawulsh Glacier, 21.7–633
Snow facies and stratigraphy on the Kashawulsh Glacier, 21.7–634
Wahl, Eberhard W.
A 700-mb atlas for the Northern Hemisphere: five-day mean heights, standard deviations, and changes for the 700-mb pressure surface (*with* **Lahey, J. F.**), 21.9–79
Wait, James R.
An approach to the mode conversion problem in non-uniform acoustic wave-guides, 21.8–663
Distortion of an ELF pulse after propagation through an antipode, 21.2–389
On the propagation of acoustic gravity waves over a spherical Earth, 21.4–390
Waite, Paul J.
Corn striations in the Charles City tornado in Iowa (*with* **Lamoureux, C. E.**), 21.1–409
Our weather is cooling off, 21.2–188
Wakahama, Gorow
Infiltration of melt water into snow cover, Pt. 2 (*with* **Nakamura, T.** and **Endô, Y.**), 21.9–342
Infiltration of melt water into snow cover, Pt. 3, 21.9–343
Studies of firn on Mt. Daisetsu in summer, Pt. 2 (*with others*), 21.8–446
Waksberg, A. L.
Atmospheric phase jitter measurements for a HeNe phase locked laser (*with* **Wood, J. I.**), 21.11–19
Walch, Dieter G.
Sommerlichen Bewölkungs- und Sonnenscheinunterschiede im Nordseeraum aufgrund von Satellitenbildern [Cloudiness and sunshine variations in the North Sea area during the summer, based on satellite pictures], 21.5–604
Walczewski, Jacek
Klasyfikacja sztucznych oddzialywan na atmosfere i przestrzen okoloziemska [Classification of artificial effects acting on the atmosphere and the near Earth space], 21.12–202
Modyfikacja dipoli przeznaczonych do rakietowych pomiarów wiatru [The modification of dipoles (chaff) used for rocket wind measurements], 21.6–30
Walden, Hans
Beiträge zum Wettergeschehen auf den Fischfangplätzen unter Südgrönland [Weather at the fishing grounds below southern Greenland] (*with* **Grünewald, G.**), 21.11–17
Probleme bei der Festlegung von Äquivalentwerten zwischen gemessenen Windgeshchwindigkeiten und geschätzen Beaufort-Stufen [Problems arising in the determination of equivalent values between measured wind velocities and estimated Beaufort scales], 21.5–47
Seegangsuntersuchungen westlich von Sylt [Investigations of swell west of Sylt], 21.9–744
Zur Variabilitat des Seegangs innerhalb langer Zeitraume [Variability of heavy swells with long intervals], 21.12–780
Waldheuser, Harry W.
Aid for tornado warnings (*with* **Hughes, L. A.**), 21.1–242
Waldichuk, M.
Seasonal physical and chemical data for Alberni Harbor and Somass River, 1958–1969 (*with* **Markert, J. R.** and **Meikle, J. H.**), 21.2–703

Waldteufel, P.
Influence sur les mesures ionosphériques par diffusion de Thomson d'une distribution électronique non Maxwellienne [Influence of a non-Maxwellian electron distribution on ionospheric measurement by Thomson scattering], 21.6–243
Valeur et variation diurne de la densité atmosphérique à 100 km d'altitude [Value and diurnal variation of the atmospheric density at an altitude of 100 km], 21.1–273
See also **Carru, H.**, 21.9–250; **Vasseur, G.**, 21.9–186
Walford, Lionel A.
Monthly sea temperature structure from the Florida Keys to Cape Cod, 21.1–44
Walk, Otto Georg
Die Bestimmung der Austauschweglänge aus Schwankungsmessungen [The determination of the mixing length by measurement of fluctuations], 21.3–599
Walker, Doreen M. C., *see* **King-Hele, D. G.,** 21.3–312, –313; 21.8–132
Walker, H. J.
Hydrology of deltas, 21.8–799
Walker, James C. G.
Vibrational temperature of molecular nitrogen in the thermosphere (*with others*), 21.12–282
See also **Rees, M. H.,** 21.8–657
Walker, John M.
One-degree increments in soil temperatures affect maize seedling behavior, 21.4–180
Walker, Robert L., *see* **Bollermann, B.,** 21.3–141
Wall, Mary A., *see* **Shleien, B.,** 21.4–84
Wallace, John M.
Diurnal wind variations, surface to 30 kilometers (*with* **Hartranft, F. R.**), 21.3–610
On the relation between Kelvin waves and the quasi-biennial oscillation (*with* **Kousky, V. E.**), 21.3–438
Some recent developments in the study of tropical wave disturbances, 21.6–317
Spectrum analysis of large-scale wave disturbances in the tropical lower troposphere (*with* **Chang, C. P.**), 21.3–439
See also **Chang, C. P.,** 21.7–269
Wallace, L.
Weak emissions in the near infrared daytime airglow (*with* **Broadfoot, A. L.**), 21.3–507
Wallen, C. C.
Exceptional European weather events in 1968, 21.7–35
Exceptional weather events in 1968, 21.5–69
Waller, J. M., *see* **Huxley, P. A.,** 21.10–78
Waller, Roger M.
Groundwater and surface water, 21.2–516
Wallio, H. Andrew
Feasibility study of determining physical properties of the Mars atmosphere by use of solar occultation as seen from an artificial satellite (*with* **Williams, J. R.**), 21.10–622
Wallis, Graham, B., *see* **Porteous, Andrew,** 21.11–377
Walmsley, J. L.
Ice cover and surface heat fluxes in Baffin Bay, 21.10–260
Walser, John T.
Delivery of nucleating materials to cloud systems from multiple ground generators, 21.11–142
Walsh, Edward J., *see* **Ramasastry, J.,** 21.3–388; 21.6–238
Walshaw, C. D.
Insertion of radiative heating in dynamical calculations, 21.10–220
See also **Sekihara, K.,** 21.5–332
Walt, Martin
Penetration of auroral electrons into the atmosphere (*with* **MacDonald, W. M.** and **Francis, W. E.**), 21.7–386
Penetration of particles into the atmosphere (*with* **Chappell, C. R.**), 21.10–523
See also **Fälthammar, C. G.,** 21.3–527
Walter, A.
Relation between incoming solar radiation and degree-hours of temperature, 21.6–359
Walter, Heinrich
Die Vegetation der Erde in öko-physiologischer Betrachtung, Band 2, Die gemässigten und arktischen Zonen [The vegetation of the Earth from its eco-physiological viewpoint, Vol. 2, The temperate and arctic zones], 21.1–19
Walters, E. V.
Wet Thursdays, 21.8–400
Walters, T. S.
Importance of diffusion along the mean wind direction for a ground-level crosswind line source, 21.4–210
Walther, Eric G.
Sensitive (0.01 ppm) detection of carbon

monoxide by gas-to-aerosol conversion: a progress report, 21.12–121
Walton, James R.
Validity of smoothed topography for numerical weather prediction, 21.5–179
Walton, Kenneth
Arid zones, 21.6–652
Walton, Ronald J., *see* **U. S. Lake Survey,** 21.4–604
Waltz, J. P.
Groundwater, 21.1–783
Walz, Alfred
Boundary layers of flow and temperature [Transl. from German], 21.5–503
Wand, I. C.
Comparison of ionospheric reflection coefficients calculated with generalized and non-generalized full wave theory, 21.4–69
See also **Jones, T. B.**, 21.3–392
Wand, R. H.
Electron-to-ion-temperature ratio from radar Thomson scatter observations, 21.8–208
Evidence for reversible heating in the E-region from radar Thomson scatter observations of ion temperature, 21.6–244
Wang, Chia Ping, *see* **Frye, Glenn M., Jr.**, 21.10–590
Wang, Chung Hao
Method of setting up finite-difference schemes for prediction equations, 21.1–231
Wang, H. H.
Status report: A primitive equation limited area "fine mesh" numerical weather prediction model (*with* **Halpern, P.** and **Wrotenbery, P.**), 21.5–180
Wang, Hsiao Ling, *see* **Yeh, T. C.**, 21.1–395
Wang, Kenneth
Electron and ion distributions in chemical nonequilibrium boundary-layer flows, 21.8–610
Wang, T. L., *see* **Fukuta, N.**, 21.6–700
Wang, Victor
Variations in the abundance of atmospheric carbon monoxide near the ground (*with* **Shaw, J. H.**), 21.6–188
Wangati, F. J.
Methods of estimating photosynthesis in the field and their application in land use planning, 21.9–403
Water use of maize and beans: results obtained with hydraulic weighing lysimeters, Mwea Irrigation Scheme, 21.9–362
Wanjura, D. F.
Temperature effect on emergence rate of cotton under field situations (*with* **Hudspeth, E. B., Jr.** and **Bilbro, J. D., Jr.**), 21.6–434
Wanke, Enzo, *see* **Palmieri, G.**, 21.7–90
Wanlass, L. Kent, *see* **Peskoff, A.**, 21.10–327
Warakomski, Wojciech
Czestoćć występowania dni i okresów z poszczególnymi typami mas powietrza nad Polską, 1951–1960 [Number of days and frequency of periods with particular air-mass types over Poland, 1951–1960], 21.7–312
Warburton, J. A., *see* **Hoffer, T. E.**, 21.5–582
Ward, J. C.
Evaluation of the effect of impoundment on water quality in Cheney Reservoir (*with* **Karaki, S.**), 21.11–739
Ward, J. F.
Power spectra from ocean movements measured remotely by ionospheric radio backscatter, 21.4–750
Ward, John H.
Feasibility study for airborne ice-crystal disdrometer (*with* **Dyes, W. A.**), 21.1–190
Ward, P. R. B., *see* **Wurzel, P.**, 21.4–574
Ward, S. H., *see* **Fuller, B. D.**, 21.9–493
Ward, Thomas M.
Influence of pH on the absorption of aromatic acids on activated carbon (*with* **Getzen, F. W.**), 21.12–271
Wardle, D. I., *see* **Vanier, J.**, 21.1–329
Wardle, P. A.
Weather and risk in forestry, 21.8–686
Wark, D. Q.
Atmospheric temperature (*with* **Hilleary, D. T.**), 21.3–547
Atmospheric temperature determinations from the SIRS-A on Nimbus-III, 21.11–35
Warmbt, Wolfgang
SO_2-Messungen mit einer amperometrisch-jodometrischen Registrierapparatur [Sulfur dioxide measurements, using amperometric–iodometric sampling instrumentation], 21.6–111
See also **Mrose, H.**, 21.12–251
Warneck, Peter, *see* **Pressman, J.**, 21.6–167
Warnecke, Guenter
Meteorological results from multispectral photometry in airglow bands by the OGO-4 satellite (*with others*), 21.3–523; 21.5–458

Ocean current and sea surface temperature observations from meteorological satellites (*with* **McMillin, L. M.** and **Allison, L. J.**), 21.8–51

Warner, J.
Microstructure of cumulus cloud, Pt. 1, 21.4–277; Pt. 2, 21.4–278
Microstructure of cumulus cloud, Pt. 3, The nature of the updraft, 21.11–353

Warner, Theodore B.
Fluoride in seawater, 21.3–787

Warnick, E. B.
Electronic analog modeling as an aid in water resource investigations, 21.8–775

Warnock, J. M., *see* **Calvert, W.,** 21.10–156

Warren, E. S.
Topside ionosphere geomagnetic storms, 21.10–196

Warren, F. W. G.
Initial value problem and some theoretical calculations of vertical mechanical wave energy flux, 21.6–283
Theoretical calculations of vertical mechanical wave energy flux in the atmosphere, 21.4–88

Warren, H. V.
Mineral pollution of water, air, and food (*with* **Delavault, R. E.**), 21.1–310

Warren, John C., *see* **Kreith, F.,** 21.10–57

Warrick, A. W.
Two-dimensional seepage of ponded water to full ditch drains (*with* **Kirkham, D.**), 21.4–573

Warsh, K. L.
A sea–air interaction deep-ocean buoy (*with* **Garstang, M.** and **Grose, P. L.**), 21.10–794

Wartburg, Arthur F.
Improved gas sampler for air pollutant analysis (*with* **Pate, J. B.** and **Lodge, J. P., Jr.**), 21.7–64

Wartburg, Brigitte, *see* **Mayr, E.,** 21.11–324

Warwick, James W.
Spectrum and polarization of solar radio bursts on a 10-millisecond time scale (*with* **Dulk, G. A.**), 21.7–749

Washburn, A. L.
Weathering, frost action, and patterned ground in the Masters Vig District, Northeast Greenland, 21.10–14

Washington, Warren M., *see* **Blumen, W.,** 21.5–370; **Houghton, D.,** 21.3–234; **Kasahara, A.,** 21.7–281

Washington (State). Dept. of Health
Environmental radiation surveillance in Washington State: 7th Annual Report, July 1967–June 1968, 21.11–45R

Washington (State). Univ., Seattle
Final Report (on) Contract Nonr 477(24), from 1958–1968, 21.9–12

Washington (State). Univ., Seattle. Dept. of Atmospheric Sciences, *see* **Buettner, K. J. K.,** 21.5–456; **Witte, H. J.,** 21.1–453

Wastler, T. A.
Measuring estuarine pollution, 21.4–793

Watanabe, Kazuo, *see* **Fujita, T. T.,** 21.3–485

Watanabe, Ryuzo
Oceanographic data for the 9th Japanese Antarctic Research Expedition (*with* **Higano, R.**), 21.6–829

Watanabe, Tomio, *see* **Yoshida, S.,** 21.7–447

Watanabe, Tomiya, *see* **Horita, R. E.,** 21.6–227

Water Research Association, Medmenham, England
Fifteenth Annual Report for the year ended Dec. 31, 1969, 21.12–19R

Water Resources Research Institute of the University of Wyoming
Water Resource Observatory, Climatological Data Water Year 1968, 21.8–517

Water Resources Review
Water Resources Review for March 1970 21.9–567

Waterman, A. T., Jr., *see* **Gray, D. A.,** 21.10–320

Waters, Andrew W.
Forecasting gusty surface winds in the continental United States, 21.11–114

Watkins, C. D., *see* **Browning, K. A.,** 21.12–471

Watkins, J. R.
The definition of the terms hydrologically arid and humid for Australia, 21.8–784

Watson, H. M., *see* **Buckingham, A. G.,** 21.2–120

Watson, I. A.
Report of an investigation into low-altitude wind structure for automatic landing, 21.12–469

Watson, Keith K., *see* **Whisler, F. D.,** 21.10–697

Watson, William D.
The revised solar abundance of iron and the solar neutrino flux, 21.11–621

Watt, T. M.
Vertical-incidence pulse dispersion with applications to the Alouette-1 topside sounder, 21.9–188

Watt, W. E.
Peak discharge relation for intermediate drainage basins (*with* **Kennedy, R. J.**), 21.7–647
See also **Kennedy, R. J.**, 21.9–598
Wauthy, Bruno, *see* **Hisard, P.**, 21.2–755; **Rotschi, H.**, 21.10–820
Wawrik, Friederike
Zur Limnologie eines Teiches im Waldviertel (NO) [Limnology of a pond in the woodland district (Lower Austria)], 21.7–813
Wax, R. L.
Rocket-borne measurements of Hβ emissions and energetic hydrogen fluxes during an auroral breakup (*with* **Bernstein, W.**), 21.11–527
Wayland, J. R.
On the possibility of cosmic rays being transient, 21.12–440
Wayne, R. P., *see* **Clark, I. D.**, 21.10–158
Waynick, Arthur H.
Ionospheric research, 21.10–197
Weart, Spencer R.
Photoelectric eclipse observation of the continuum at the extreme solar limb (*with* **Faller, J. E.**), 21.6–633
Weather [London]
Eddies in the lee of islands, 21.7–513
Weather Trends, Inc.
Weather outlook for spring and summer of 1969, 21.3–276
Weatherley, L. P. M., *see* **Craxford, S. R.**, 21.7–139
Weaver, C. R., *see* **Miller, M. E.**, 21.2–262
Weaver, Morris E.
Morphological changes in swine associated with environmental temperature (*with* **Ingram, D. L.**), 21.7–432
Webb, Douglas C., *see* **Winn, A. L.**, 21.3–780
Webb, W. L.
Dynamic climatology of the stratosphere, 21.9–405
Webb, Willis L.
Cold Earth, 21.6–206
Conference on Composition and Dynamics of the Upper Atmosphere (*with* **Lamberth, R. L.**), 21.3–358
Global electrical currents, 21.8–596
Solar control of the stratospheric circulation, 21.1–387
Stratospheric circulation (ed.), 21.11–250
Stratospheric circulation: Seminar in Tokyo, May 1968, 21.1–323
Webber, W. R.
Some observations on the 11-year modulation of galactic cosmic rays, 21.11–566
See also **Beedle, R. E.**, 21.2–161; **Lockwood, J. A.**, 21.7–414; **Von Rosenvinge, T. T.**, 21.2–169; 21.8–309
Webbink, Ronald F.
Infrared astronomy (*with* **Jeffers, W. O.**), 21.7–739
Weber, E. J.
The effect of finite electrical conductivity on the angular-momentum loss of the sun due to the solar wind, 21.7–387
Rotation of the solar atmosphere, 21.5–720
Weber, Thomas A., *see* **Trizna, D. B.**, 21.5–693
Weber, Walter Jacob, Jr.
Reclamation of water for reuse as a water resource (*with* **DiGiano, F. A.**), 21.8–694
Webster, F. B.
Short investigation into the relationship between the duration of sunshine and total cloud amount, 21.1–442
Webster, Ferris
Observations of inertial-period motions in the deep sea, 21.4–780
Webster, George R., *see* **Park, P. K.**, 21.4–577
Wedler, E., *see* **Bortels, H.**, 21.7–461
Weedfall, Robert O.
Application of air-mass classifications to West Virginia climatology, 21.11–277
Meteorological drought in West Virginia, 21.8–419
Weekes, K., *see* **Butcher, E. C.**, 21.7–176
Weeks, W. F.
Fracture of lake and sea ice (*with* **Assur, A.**), 21.5–774
See also **Kovacs, A.**, 21.9–328
Wege, Klaus
Verarbeitung meteorologischer Daten beim Rechenzentrum des Deutschen Wetterdienst [Processing of meteorological data in the computing center of the German Weather Service], 21.7–16
Wehausen, John V.
Use of Lagrangian coordinates for ship wave resistance, 21.4–406
Wehner, Hans
Probleme der Auswertung meteorologischer Daten für Flugwegklimatologien [Problems of evaluation of meteorological data for flight path climatology], 21.6–662

Weickmann, Helmut K.
- Artificial modification of atmospheric water resources, 21.8–120
- Hailstreak fallacy (*with* **Schuman, E.**), 21.3–671
- *See also* **Allee, Paul A.**, 21.12–509

Weidner, Don K.
- Diurnal variations in the thermosphere from a series of Marshall–University-of-Michigan probes (*with* **Swenson, G. R.**), 21.3–359

Weigand, J. G.
- Effects of friction and surface tide angle of incidence on the coastal generation of internal tides (*with others*), 21.4–776

Weihe, Wolf H.
- [Obituary of] **Helmut Brezowsky**, 21.9–154R

Weill, Gilbert M.
- Airglow research during and since the IQSY, 21.3–524
- NI (^{4}S–^{2}D) radiation in the night airglow and low latitude aurora, 21.7–362
- Night sky and low latitude aurorae in a magnetic storm period (*with* **Christophe-Glaume, J.**), 21.11–34R
- *See also* **Christophe-Glaume, J.**, 21.11–34R

Weinert, R. A.
- Statistics of the subtropical jet stream over the Australian region, 21.5–526
- *See also* **Hauth, F. F.**, 21.8–365; **Peterson, James T.**, 21.8–144

Weinstein, Alan I.
- Isolated cumulus cloud modification project (*with* **MacCready, P. B., Jr.**), 21.5–212
- Numerical model of cumulus dynamics and microphysics, 21.1–595; 21.10–94R
- Observations of ice crystals in a cumulus cloud seeded by vertical-fall pyrotechnics, 21.10–132

Weinstein, M.
- Meteorological and geographical aspects of aerial photography of the Southern Hemisphere conducted on the Rockwell Around-the-World Polar Flight Expedition (*with* **Goedeke, A. D.**), 21.4–273

Weinstock, Bernard
- Carbon monoxide: residence time in the atmosphere, 21.5–232

Weischet, Wolfgang
- Kann und soll noch klimatologische Forschung im Rahmen der Geographie betrieben werden? [Can and should climatological research still be conducted with reference to geography?], 21.3–675
- Klimatologische Regeln zur Vertikalverteilung der Niederschläge in Tropengebirgen [Climatological rules for the vertical distribution of precipitation in tropical mountains], 21.5–618

Weiss, Bernard D.
- Error analysis of the 10-g, 30-g, and 100-g balloon height tables, 21.3–135
- Test report: AN/GMD-2A Rawin set–AN/FPS-16 radar comparison (*with* **Georgian, E. J.**), 21.12–93

Weiss, Charles M.
- Water quality technology: present capabilities and future prospects (*with* **Okun, D. A.**), 21.10–696

Weiss, Ephraim, *see* **Kolker, M.,** 21.2–22

Weiss, G.
- Zwei neue Mariner-Sonden für die Forschung [Two new Mariner probes for research], 21.2–448

Weiss, Ingrid
- Bedeutet die vereisung für den modernen Flugverkehr kein Problem mehr? [Is icing no longer a problem in modern aviation?], 21.6–574

Weiss, J., *see* **Lauter, E. A.**, 21.5–35

Weiss, N. O., *see* **Simon, G. W.**, 21.2–468

Weisweiler, Werner
- Ableitung der Wachstumsgeschwindigkeit kleiner Eiskristalle am Tauspiegel [Derivation of the growth rate of small ice crystals on the dew-point mirror], 21.3–646
- Messung der Wachstumsgeschwindigkeit lamellarer Eiskristalle gezüchtet am Tauspiegel [Measurements of growth rate of lamellar ice crystals grown on a dew [point] mirror], 21.3–647
- Wachstum lamellarer Eiskristalle unter instationären Züchtungsbedingungen auf einem Tauspiegel [Increase of lamellar ice crystals under non-stationary growth conditions on a dew [point] mirror], 21.6–566

Welch, William J.
- Selective review of ground based passive microwave radiometric probing of the atmosphere, 21.9–28

Weller, G.
- The heat and mass balance of snow dunes on the central Antarctic plateau, 21.8–449

Weller, Gunter E.
- Ice fog studies in Alaska (ed.), 21.5–592
- Meridional surface wind speed profile in MacRobertson Land, Antarctica, 21.10–339

Wells, A. C., *see* **Megaw, W. J.**, 21.8–214
Wells, Frederick J., *see* **Harkrider, D. G.**, 21.5–372
Wells, Howard J., *see* **Cobb, William E.**, 21.11–506
Wells, Michael B.
  Monte Carlo calculations of the transmission of thermal radiation from nuclear detonations in model atmospheres (*with* **Collins, D. G.** and **Marshall, J. D.**), 21.2–6
  See also **Collins, Dave G.**, 21.7–326
Welsh, H. L.
  Pressure-induced infrared spectrum of hydrogen and its application to the study of planetary atmospheres, 21.4–486
Welt, Ruth M.
  Evaluation of low-altitude, fast-rise meteorological balloon ML-635(XE-1)/UM, 21.7–39
Wende, C. D., *see* **Van Allen, J. A.**, 21.2–153; 21.3–716
Wende, Charles D.
  Correlation of solar microwave and soft X-ray radiation, Pt. 1, The solar cycle and slowly varying components, 21.8–302
Wendland, Wayne M., *see* **Bryson, R. A.**, 21.11–89R
Wendler, Gerd
  Characteristics of the glaciation of the Brooks Range, Alaska, 21.3–752
  Heat balance studies during an ice-fog period in Fairbanks, Alaska, 21.4–382
  Short-term heat balance study on a coast range glacier (*with* **Streten, N. A.**), 21.10–775
Wentzel, Donat G.
  Propagation and anisotropy of cosmic rays, Pt. 1, 21.2–170
Wentzell, R. A.
  Cavitation due to shock pulses reflected from the sea surface (*with* **Scott, H. D.** and **Chapman, R. P.**), 21.4–664
Werner, J., *see* **Brockamp, B.**, 21.12–97
Wert, S. L.
  System for using remote sensing techniques to detect and evaluate air pollution effects on forest stands, 21.12–272
Wescott, Eugene M.
  Electric fields in the vicinity of auroral forms from motions of barium vapor releases (*with* **Stolarik, J. D.** and **Heppner, J. P.**), 21.8–613
Wesely, M. L.
  Eddy correlation measurements of sensible heat flux near the Earth's surface (*with* **Thurtell, G. W.** and **Tanner, C. B.**), 21.6–491
  See also **Thurtell, G. W.**, 21.11–90
Wesseling, J.
  Hydrology, soil properties, crop growth and land drainage, 21.3–738
Westbrook, Jane H.
  Relationship of hourly durations to the daily maximum temperature, 21.6–440
Western Snow Conference, 37th, Salt Lake City, Utah, April 15–17, 1969
  Proceedings, 21.10–402
Westin, Hans
  Some statistical properties of surges, 21.8–763
  Statistical study of surges, 21.2–493
Westlund, Clay D.
  Rocket techniques for measurement of atmospheric density, 21.12–208
Westphal, J. A.
  Observations of localized 5-micron radiation from Jupiter, 21.4–462
Westwater, Edward R.
  Ground-based microwave probing (*with* **Decker, M. T.**), 21.6–38
Wetter und Leben [Vienna]
  RCA entwickelt einmaliges unbemanntes segelboot für ozenographische, meteorologische und elektronische Erkundungsaufgaben [RCA develops unique unmanned sailboat for oceanographic meteorological, and electronic investigations], 21.11–63
Wetzel, Robert G., *see* **Rich, Peter H.**, 21.9–675
Wexler, Raymond
  Mean and variance of hail fall speed, 21.10–407
  See also **Elterman, L.**, 21.3–344
Weyl, Peter K.
  Equivalent salinity, a new oceanographic parameter for the study of vertical motion in the sea, 21.9–712
  Oceanography: an introduction to the marine environment, 21.10–790
Whale, H. A.
  Effects of ionospheric scattering of very-long-distance radio communication, 21.6–245
  Small-aperture measurements of the shape of the received cone of rays in long-distance ionospheric propagation, 21.7–208
Whalen, B. A.
  Summary of rocket measurements of auroral particle precipitation (*with* **McDiarmid, I. B.**), 21.10–524

Temporal behavior of energetic particle precipitation during an auroral substorm (*with* **McDiarmid, I. B.**), 21.6–419

Whalen, James A., *see* **Buchau, Jurgen**, 21.10–502

Whaley, H.
Air pollution (*with others*), 21.6–189
Proposed Canadian standard for estimating atmospheric dispersion of combustion source pollution from chimneys, 21.1–500

Whalley, E.
Infrared spectrum of ice Ih in the range 4000 to 15 cm^{-1}, 21.6–815
Structure problems of ice, 21.8–804

Whalley, R. D. B.
Drought dormancy in *Astrebla lappacea, Chloris acicularis* and *Stipa aristiglumis* (*with* **Davidson, A. A.**), 21.9–322

Wheelon, Albert D.
Theoretical interpretations of scatter propagation, 21.8–705

Whetstone, G. W.
National environmental data-collection systems for water resources development (*with* **Schloemer, R. W.**), 21.8–781

Whipple, Elden C., Jr.
Effects of secondary electron emission on electron trap measurements in the magnetosphere and solar wind (*with* **Parker, L. W.**), 21.4–154
Satellite ion–electron collector: experimental effects of grid transparency, photoemission, and secondary emission (*with* **Hirman, J. W.** and **Ross, R.**), 21.1–161
Theory of an electron trap on a charged spacecraft (*with* **Parker, L. W.**), 21.2–155

Whipple, F. L.
Origins of meteoritic material, 21.11–605

Whisler, Frank D.
Analysis of infiltration into draining porous media (*with* **Watson, K. K.**), 21.10–697

Whistler, C. F., *see* **Hill, H. W.**, 21.8–45

Whitaker, W. A., *see* **Greene, J. S., Jr.**, 21.5–348

Whitby, K. T., *see* **Tomaides, M.**, 21.12–266

Whitby, Kenneth T.
Atmospheric aerosol size distributions: summary of research (*with* **Liu, B. Y. H.**), 21.12–273

White, B. J.
Secular trends in target/control area ratios, 1925–1966, used in analysis of cloud seeding in Victoria, 1966, 21.8–130

White, Donald E.
Rapid heat-flow surveying of geothermal areas, utilizing individual snowfalls as calorimeters, 21.5–724

White, Elizabeth L.
Behavior of annual floods in limestone basins in Pennsylvania (*with* **Reich, B. M.**), 21.10–420

White, K. O.
Real time laser propagation data analysis technique (*with* **Schleusener, S. A.**), 21.7–736

White, K. P., III
An example of radio and optical homologous flares (*with* **Janssens, T. J.**), 21.12–629
See also **Janssens, T. J.**, 21.8–723; 21.11–631

White, Marvin L.
Origin of the solar system, 21.2–435

White, Norman, *see* **Nader, J. S.**, 21.5–108

White, R. M.
Weather and the construction industry, 21.1–80

White, Robert M.
A century of weather science and service, 21.10–15

White, T. C. R.
Index to measure weather-induced stress of trees associated with outbreaks of psyllids in Australia, 21.11–445

White, Thomas E.
Tractionability study for the Laotian Panhandle, 21.8–560

White, William C.
Project Tule fog: an investigation of warm fog dispersal using hygroscopic solutions (*with others*), 21.10–124

Whitehead, J. D.
Phase ionosonde, 21.10–198

Whitehead, Victor S.
Cloud height contouring from Apollo-6 photography (*with* **Browne, I. D.** and **Garcia, J. G.**), 21.7–582

Whiting, Dick M.
Marine meteorological observations, 21.4–14

Whitman, Ruth I., *see* **McKee, T. B.**, 21.4–253

Whitney, Herbert E.
Definition of scintillation index and its use for characterizing ionospheric effects, 21.10–199

Proposed index for measuring ionospheric scintillations (*with* **Aarons, J.** and **Malik, C.**), 21.9–189

Whitney, L. F., *see* **Reiter, E. R.,** 21.5–523

Whitten, R. C.

Thermal structure of the ionosphere of Venus, 21.5–709

Whyte, Robert Orr

Grasslands of the monsoon, 21.6–499

Wickersham, A. F., Jr.

The diurnal source and nature of gravity waves ducted in the lower thermosphere, 21.10–200

Wicklund, Robert I., *see* **Walford, L. A.,** 21.1–44

Widdison, Jerold G., *see* **Tuan, Yi Fu,** 21.8–511

Widger, William K., Jr.

Radiative generation of eddy available potential energy in extratropical cyclones, 21.1–399

Widing, Kenneth G.

Solar research from rockets and satellites, 21.2–457

Widmer, Kemble

Geology as a guide to regional estimates of the water resource, 21.9–634

Wiehr, Eberhard

On polarimetery in solar active regions, Pt. 1, 21.5–714

Problems in the interpretation of polarization measurements in active regions, 21.11–656

Wieringa, J., *see* **Rijkoort, P. J.,** 21.12–466

Wiffen, R. D., *see* **Heard, M. J.,** 21.5–254

Wiggert, Victor, *see* **Simpson, J.,** 21.5–600

Wigley, T. L., *see* **Brown, M. C.,** 21.7–795

Wiin-Nielsen, A.

On atmospheric response to large-scale seasonal forcing, 21.7–280

Theoretical study of the annual variation of atmospheric energy, 21.12–351

Wilcove, Raymond

The Coast Survey helps the Weather Bureau and vice versa, 21.8–12

Wilcove, Raymond

Look toward tomorrow, 21.2–660

Wilcox, John M.

Active regions and the interplanetary magnetic field (*with* **Ness, N. F.** and **Schatten, K. H.**), 21.2–413

[Discussion of] **C. Y. Fan et al.:** Protons associated with centers of solar activity and their propagation in interplanetary magnetic field regions corotating with the Sun (*with* **Schatten, K. H.**), 21.2–414

Large-scale pattern in the solar magnetic field (*with* **Howard, R.**), 21.11–657

Solar source of interplanetary magnetic fields (*with others*), 21.11–658

See also **Akasofu, S. I.,** 21.9–145; **Schatten, K. H.,** 21.3–714

Wild, J. P.

Observation of the magnetic structure of a type IV solar radio outburst, 21.9–470

Wildey, Robert L.

The normal albedo of the Apollo-11 landing site and intrinsic desperion in the lunar heiligenschein (*with* **Pohn, H. A.**), 21.9–490

Wildman, P. J. L.

Molecular oxygen measurements from 100–150 km at Woomera, Australia (*with* **Kerley, M. J.** and **Shaw, M. S.**), 21.3–327

Wildt, Rupert

Outer planets, 21.5–705

Wildung, R. E.

Soil perfusion under controlled conditions of soil moisture content and soil atmospheric composition (*with* **Biggar, J. W.** and **Chesters, G.**), 21.7–658

Wilgain, S., *see* **Expédition Antarctique Belgo–Néerlandaise, 1964, 1965, 21.1–337**

Wilgat, Tadeusz

Charakterystyka hydrogeograficzna wybranch fragmentów dorzecza Rio Aconcagua (Chile) [Hydrogeographical characteristics of selected sections of the drainage basin of Rio Aconcagua in Chile] (*with* **Kesik, A.** and **Wojciechowski, K.**), 21.5–764

Wilhelmsson, H.

Nonlinear "explosive" instabilities: do they exist in the atmosphere?, 21.10–218

Wilk, K. E.

Detection and presentation of severe thunderstorms by airborne and ground-based radars (*with* **Carter, J. K.** and **Dooley, J. T.**), 21.2–102

Wilkening, Marvin H.

Radon-222 concentrations in the convective patterns of a mountain environment, 21.12–331

Wilkening, Marvin H., *see* **Jonassen, N.,** 21.12–325

Wilkerson, John C.

Potential impact of satellite data on sea surface temperature analysis (*with* **Noble, V. E.**), 21.4–184

Time–space variations of the Gulf Stream as observed by airborne remote sensing techniques (*with* **Noble, V. E.**), 21.11–773

See also **Noble, V. E.,** 21.3–575; 21.10–824

Wilkerson, T. D., *see* **Ogilvie, K. M.,** 21.11–297

Wilkes, James O., *see* **Hales, J. M.,** 21.7–144

Wilkes College, Wilkes-Barre, Pa., *see* **Bruch, A.,** 21.3–609

Wilkins, Eugene M.

Hot-film anemometer measurements of velocity decay in Karman trail vortexes, 21.7–237

Properties of simulated thermals in a rotating fluid (*with others*), 21.3–633

Resonance amplification and viscous attenuation of atmospheric bow waves (*with* **Sasaki, Y.**), 21.7–518

Wilkinson, M. C., *see* **Curtis, S. B.,** 21.8–265

Will, R., *see* **Asselin de Beauville, J. P.,** 21.6–86

Willand, James H., *see* **Greaves, J. R.,** 21.2–764

Willatt, S. T.

Moisture use by tea in southern Malawi, 21.9–363

Williams, Albert J., III

An experimental survey of the low energy electron scattering spectrum of nitrogen (*with* **Doering, J. P.**), 21.11–541

Williams, Allen, *see* **Carstens, J. C.,** 21.11–374

Williams, D. J.

Proton entry into the magnetosphere on May 26, 1967 (*with* **Bostrom, C. O.**), 21.2–156

Williams, Dansy T.

Unusual wind shifts of two wildfires, 21.1–509

Williams, G. Daniel V.

Applying estimated temperature normals to the zonation of the Canadian Great Plains for wheat, 21.6–435

Tables of daily degree-days above or below any base temperature (*with* **MacKay, K. H.**), 21.12–449

Vapor pressure deficit vs. relative humidity for expressing atmospheric moisture content (*with* **Brochu, J.**), 21.5–548

Williams, G. E.

Flow conditions and estimated velocities of some Central Australian stream floods, 21.1–646

Williams, G. F., Jr.

Microwave radiometry of the ocean and the possibility of marine wind velocity determination from satellite observations, 21.6–835

Williams, G. P., *see* **Boyd, D. W.,** 21.6–573

Williams, James R., *see* **Wallio, H. A.,** 21.10–622

Williams, James T., Jr.

Using satellite cloud data as an aid to surface analysis, 21.3–169

Williams, M. A. J.

Prediction of rainsplash erosion in the seasonally wet tropics, 21.7–622

Williams, Merlin C.

Responsibility in weather modification operation (*with* **Schleusener, R. A.**), 21.12–182

Williams, Owen W.

Air Force and Army cooperation in bitter weather produces a precise geodetic measurement, 21.3–176

Williams, P. M.

Carbon-13, carbon-12 ratios in dissolved and particulate organic matter in the sea (*with* **Gordon, L. I.**), 21.12–753

Natural radiocarbon activity of the dissolved organic carbon in the northeast Pacific Ocean (*with* **Oeschger, H.** and **Kinney, P.**), 21.4–672

Williams, Paul W.

Geomorphic effects of groundwater, 21.4–549

Williams, R. B. G.

Permafrost and temperature conditions in England during the last glacial period, 21.5–490

Williams, Robert

Hydrologic data collection and analysis for reservoir regulation in the middle and upper Missouri River Basin (*with* **Kidd, H. S.**), 21.9–573

Williams, Roy E.

Factors affecting infiltration and recharge in a loess covered basin (*with* **Allman, D. W.**), 21.4–566

A preliminary report on an empirical analysis of drainage network adjustment to precipitation input (*with* **Fowler, P. M.**), 21.7–800

Williams, W. Gary

System for the analysis of dissolved oxygen, nitrogen and argon in natural waters, 21.2–714

Williams, W. J., *see* **Murcray, D. G.,** 21.7–523

Williamson, Arthur E.
Water quality control from a state viewpoint, 21.2–600

Williamson, David L.
Integration of the barotropic vorticity equation on a spherical geodesic grid, 21.5–181

Williamson, K.
Weather systems and bird movements, 21.1–81

Williamson, L. Edwin
Gun-launched meteorological probe and its application to a global meteorological sounding network, 21.4–19
Use of guns for atmospheric sounding, 21.12–64

Williford, William O.
Probability models for the variation in the number of thunderstorm hits per day (*with* **Carter, M. C.**), 21.3–465

Willis, D. M.
Influx of charged particles at the magnetic cusps on the boundary of the magnetosphere, 21.2–157

Willis, Paul T.
Diffusion in an orographic environment, 21.10–146
Parameterized numerical model of orographic precipitation, 21.12–136

Willis, W. O.
Water conservation over winter in the Northern Plains (*with* **Haas, H. J.**), 21.10–551

Willmore, A. P., *see* **Dorling, E. B.**, 21.3–373

Willoughby, D. S., *see* **Colin, L.**, 21.10–160

Wills, Thomas G.
Characteristics of the tornado environment as deduced from proximity soundings, 21.3–472

Wilser, Otto
Hydrometeorologische Untersuchung der Trockenperiode 1959/60 in Thüringen und im Vogtland [Hydrometeorological investigation of the dry period 1959/60 in Thuringia and in the Vogtland], 21.5–72

Wilska, Matti G.
New liquid distillation type instrument for integrating solar radiation, 21.6–75

Wilson, A. W., *see* **Brewer, A. W.**, 21.1–278

Wilson, B. G.
Low-energy Bremsstrahlung X-ray from a stable auroral arc (*with* **Baxter, A. J.** and **Green, D. W.**), 21.7–388
See also **Baxter, A. J.**, 21.9–474; **Green, D. W.**, 21.5–463

Wilson, Billy Ray (ed.)
Environmental problems: pesticides, thermal pollution, and environmental synergisms, 21.1–35

Wilson, Charles R.
Auroral infrasonic and ionospheric obsorption substorms, 21.10–525
Auroral infrasonic waves, 21.10–526
Infrasonic waves from moving auroral electrojets, 21.11–528

Wilson, Cynthia
Climatology of the cold regions, 21.6–642

Wilson, Dean A.
Use of radar in the study of winter storms over the Cascade Mountains (*with* **Hobbs, P. V.**), 21.7–284

Wilson, E. M.
Engineering hydrology, 21.1–20

Wilson, H. P.
On the vertical structure of jet streams, 21.9–269
Stability waves, 21.1–394

Wilson, J. R., *see* **Stewart, R. W.**, 21.11–240

Wilson, James F., Jr.
Improved dyes for water tracing, 21.10–689

Wilson, James T., *see* **Havlick, S. W.**, 21.5–744

Wilson, James W.
Integration of radar and raingage data for improved rainfall measurements, 21.11–53
See also **Entrekin, H. D.**, 21.3–288

Wilson, K. V.
Flood-flow characteristics of a rectified channel, Jackson, Mississippi, 21.2–607

Wilson, Kenneth H., *see* **Wood, A. D.**, 21.4–150

Wilson, Margaret D., *see* **McDiarmid, I. B.**, 21.7–376

Wilson, P. H.
Glasgow wind damage, 21.4–236

Wilson, P. R.
The mean temperature gradient in the umbra, 21.8–752
On the properties of umbral dots, 21.8–768
Structure of a sunspot, Pt. 5, What is the Wilson effect? (*with* **McIntosh, P. S.**), 21.8–769
Temperature fluctuations in the solar photosphere, Pt. 2, The mean limb-darkening and the second maximum, 21.8–759

Wilson, R. W., *see* **Penzias, A. A.**, 21.4–469

Wilson, Richard G., *see* **Rouse, W. R.**, 21.6–651

Wilson, T. E., *see* **Bruner, E. C., Jr.**, 21.10–202

Wilson, T. R. S., *see* **Murray, C. N.**, 21.4–681

Wilson, W. R.
- 1969 Skyhook Program, 21.12–31R

Wilson, W. Stanley
- Field measurements of swell off the island of Aruba, 21.2–661

Wilson, William, *see* **Lee, G. Fred**, 21.10–678

Wiltshire, V., *see* **Carman, E. H.**, 21.3–517

Wimbush, Mark H., *see* **Caldwell, D. R.**, 21.3–781

Winchester, John W., *see* **Loucks, R. H.**, 21.12–245

Winckler, J. R., *see* **Arnoldy, R. L.**, 21.2–132; **Parks, G. K.**, 21.7–380; **Pfitzer, K. A.**, 21.10–287

Winckler, Robert L.
- Nonlinear utility and the probability score (*with* **Murphy, A. H.**), 21.6–131

Windle, D. W., *see* **Sozou, C.**, 21.2–152; 21.8–297

Winkler, Peter
- Untersuchungen über das Grössenwachstum natürlicher Aerosolteilchen mit der relativen Feuchte nach einer Wägemethode [Research on the increase in size of aerosol particles with increased relative humidity by a weighing method], 21.6–190

Winn, Alden L.
- Autoprobe, a platform for mid-winter observation (*with* **Webb, D. C.** and **Burt, K.**), 21.3–780

Winninghoff, Frank, *see* **Bonner, W. D.**, 21.3–148

Winqvist, Gustav
- Artificial replenishment of groundwater, 21.5–757

Winston, J. S.
- Global distribution of cloudiness and radiation as measured from weather satellites, 21.8–52
- *See also* **Hubert, L. F.**, 21.1–381

Winter, T. C., *see* **O'Bryan, D.**, 21.2–305

Winter, Thomas C., Jr.
- Apollo solar experiments, 21.2–458

Winter, Valeria
- Asupra concentratiei. Nucleelor de condensare, II [Concentration of condensation nuclei, Pt. 2] (*with* **Cazan-Corbasca, M.**), 21.10–367
- Temperatura radiativă: metodă indirectă de analiză a cîmpului radiativ [Radiative temperature: an indirect method of analysis of the radiation field] (*with* **Cazan-Corbasca, M.**), 21.8–237

Wippermann, Friedrich
- The orientation of vortices due to instability of the Ekman-boundary layer, 21.11–228
- Über die Verteilung der Konzentrationsschwankungen eines sich in der Atmosphäre ausbreitenden Schadgases [Distribution of concentration fluctuations of a harmful gas diffusing in the atmosphere], 21.5–505

Wippermann, G.
- Numerical experiments on the formation of a tornado funnel in the boundary layer (*with* **Szillinsky, A.**), 21.4–112

Wirkus, Feliks, *see* **Litynska, Z.**, 21.7–557

Wirth, Endre
- Jégesőképződési elméletek és megelőzési módszerek a Szovjetunióban [Theories of hail-formation and methods of hail suppression in the Soviet Union], 21.5–213
- *See also* **Bánkövi, G.**, 21.10–127

Wirth, P.
- La construction de l'hydrogramme unitaire par le moyen de l'analogie hydrologique [Construction of the unit hydrograph by use of hydrologic analogy] (*with* **Zsuffa, I.**), 21.9–588

Wirth, Zygmunt, *see* **Litynska, Z.**, 21.7–557

Wisconsin. Univ., Madison
- Meteorological satellite instrumentation and data processing, 21.8–53

Wisconsin. Univ., Madison. Dept. of Met., *see* **Bryson, R. A.**, 21.5–771

Wisconsin. Univ. Sea Grant Program
- Lakes and seas, 21.4–636

Wisconsin. Univ. Space Science and Eng. Center, *see* **Bernstein, T.**, 21.6–79

Wiseman, W. J.
- On the structure of high-frequency turbulence in a tidal estuary, 21.4–794

Wislon, David S., Jr., *see* **Battan, L. J.**, 21.4–298

Wisse, J. A.
- Ozone observations at King Baudouin base in 1965 and 1966 (*with* **Meerburg, A. J.**), 21.3–328
- Preliminary discussion on some oxidant measurements at Vlaardingen, The Netherlands (*with* **Velds, C. A.**), 21.12–213

- **Withbroe, George L.**
  - The photospheric abundance of iron, 21.8–760
  - Solar (FeII) lines, 21.12–652
  - Solar XUV limb brightening observations, Pt. 2, Lines formed in the chromospheric coronal transition region, 21.12–648
- **Withers, V. R.,** *see* **Marsh, K. J.,** 21.4–203
- **Witherspoon, D. F.**
  - Hydrological model of the Lake Ontario local drainage basin, 21.6–787
- **Witherspoon, Paul A.,** *see* **Javandel, I.,** 21.4–559; **Newman, S. P.,** 21.4–560, –561
- **Wit-Jóźwik, Krystyna**
  - Przykłady map hydrograficznych z Południowej Polski [Examples of hydrographical maps of Southern Poland], 21.6–742
- **Witt, G.**
  - Nature of noctilucent clouds, 21.7–709
- **Witte, Howard Joe**
  - Airborne observations of cloud particles and infrared flux density (8–14 μ) in the Arctic, 21.1–453
- **Wittmann, A.**
  - Intensity, velocity and magnetic structure of a sunspot region, Pt. 5 (*with* **Schröter, E. H.**), 21.9–533
  - Some properties of umbral flashes, 21.2–494
- **Wixon, Dennis W.**
  - North Sea effect, 21.2–334
- **Wobus, Hermann B.**
  - Height-distance charts for rawin computations, 21.9–107R
- **Wöhl, Hubertus**
  - Moleküle in Sonnenflecken [Molecules in sunspots], 21.10–649
  - On H_2O in sunspots, 21.10–671
- **Woeller, Fritz**
  - Organic synthesis in a simulated Jupiter atmosphere (*with* **Ponnamperuma, C.**), 21.11–598
- **Woerner, Fritz,** *see* **Schreiber, H.,** 21.5–282
- **Wörner, H.**
  - Rolle der Strahlungsforschung in der Arbeit des Meteorologischen Hauptobservatoriums Potsdam [Role of radiation research in the work of the Potsdam Chief Meteorological Observatory], 21.7–320
  - Statistische Regeln für Jahreszeitenprognosen und deren Prüfung [Seasonal forecasts and their statistical rules and verification], 21.1–248
  - Zur Messung und Berechnung der atmosphärischen Strahlungsströme [Measurement and calculation of atmospher radiation fluxes], 21.10–267
- **Wötzel, Dieter,** *see* **Georgii, Hans-Walte** 21.11–393
- **Wojciechowski, Kazimierz**
  - Metoda obliczania rozkładu zanieczyszcze atmosfery pochodzacych od grup różnych źródeł punktowych [Distribution of air pollution originating fro many point sources], 21.5–304
- **Wojciechowski, Krzysztof,** *see* **Wilgat, T.** 21.5–764
- **Wojciechowski, T. A.,** *see* **Dinger, J. E.** 21.11–371; **Twomey, S.,** 21.1–568
- **Wolf, Fred,** *see* **Spiegel, J. M.,** 21.8–743
- **Wolf, P. O.,** *see* **Hall, M. J.,** 21.2–526
- **Wolfe, A. M.**
  - Discrete source models to explain the microwave background radiation (*wit* **Burbidge, G. R.**), 21.2–433
- **Wolff, C. L.,** *see* **Roosen, R. G.,** 21.7–74
- **Wolff, Charles,** *see* **Brandt, J. C.,** 21.8–25
- **Wolff, Edwin L.,** *see* **Roberts, W. O.** 21.3–22
- **Wolff, H.**
  - Vapor pressure isotope effect of ice and its isomers, 21.6–816
- **Wolff, P. M.,** *see* **Clay, C. S.,** 21.2–704
- **Wollenberg, Harold A.**
  - Natural and fallout radioactivity in the San Francisco Bay area (*with others*), 21.3–398
- **Wollin, Goesta,** *see* **Ericson, D. B.,** 21.10–453
- **Wolman, Abel**
  - Water, health and society, 21.8–776
- **Wołoszyn, J.**
  - The genetic method of computation of flood caused by storm rainfalls in small catchment areas in the absence of hydrological data, 21.8–414
- **Wolstencroft, R. D.**
  - Zodiacal light at the north ecliptic pole, 21.10–643
- **Wong, C. S.**
  - Quantitative analysis of total carbon dioxide in sea water: a new extraction method, 21.12–749
- **Wong, Ming S.**
  - Forecasting the magnitude and duration of polar-cap absorption, 21.4–421
- **Woo, S. B.**
  - Sunlight photodetachment rate of ground state O_2^- (*with* **Branscomb, L. M.** and **Beaty, E. C.**), 21.1–283

Wood, A. B.
Lightning and the transmission engineer, 21.8–642
Wood, Allen D.
Radiant energy transfer measurements in air (*with* **Wilson, K. H.**), 21.4–150
Wood, J. I., *see* **Waksberg, A. L.**, 21.11–19
Wood, L. E.
Technique for improving the accuracy of air-to-ground radio distance measurement systems (*with* **Thompson, M. C., Jr.**), 21.6–686
Wood, Walter A.
Icefield Ranges Research Project, Scientific results, 21.9–382
Woodhead, T.
Diurnal variation of mean wind speed at four locations in Kenya and Tanzania, 21.9–261
Investigation into some micro-meteorological aspects of coffee berry disease, 21.4–331
Rainfall variability in the Kitale area, 21.9–311
Woodley, William L.
Precipitation results from a pyrotechnic cumulus seeding experiment, 21.8–131
Rain-gage evaluation of the Miami reflectivity–rainfall rate relation (*with* **Herndon, A.**), 21.7–30
See also **Simpson, J.**, 21.3–307
Woodrum, Arthur
Atmospheric tidal motion in the 90 to 120 kilometer height region (*with* **Justus, C. G.**), 21.3–632
Measurements of tidal-period winds in the 95- to 135-kilometer region (*with* **Justus, C. G.** and **Roper, R. G.**), 21.3–631
Woods Hole, Mass. Oceanographic Inst., *see* **Thompson, R.**, 21.2–744
Woods, J. D.
Fossil turbulence (*with others*), 21.10–234
Woodwell, George M.
Radioactivity and fallout, 21.5–305
Woodworth, W. C.
Extracting digital historical upper air fields from U. S. Fleet Numerical Weather Facility files, 21.3–342
Wooldridge, David D.
Water transport in soils and streams, 21.7–659
Wooldridge, Gene
Detailed observations of mountain lee waves and a comparison with theory (*with* **Lester, P. F.**), 21.1–546
Large-scale atmospheric circulation characteristics as evident from GHOST balloon data (*with* **Reiter, E. R.**), 21.7–266
Woolf, H. M., *see* **Miller, A. J.**, 21.4–173
Woolf, N. J.
Far infrared sky survey (*with others*), 21.7–741
Woolhiser, David A., *see* **Kibler, D. F.**, 21.11–678
Wooster, Warren S.
Redefinition of salinity (*with* **Lee, A. J.** and **Deitrich, G.**), 21.2–711; 21.4–673; 21.5–794
Worker, George F., Jr., *see* **Robinson, F. E.**, 21.8–684
Workman, E. J.
Atmospheric electrical effects resulting from the collision of supercooled water drops and hail, 21.6–679
Possible role of ammonia in thunderstorm electrification, 21.7–715
World Data Center A [for] Oceanography, Wash., D.C.
Catalogue of data; Change No. 2 [and] Change No. 3, 21.2–666
Oceanographic data exchange, 1968, 21.10–60R
Oceanographic data exchange, 1969, 21.11–46R
Semiannual report of oceanographic data exchange through June 30, 1969, 21.10–61R
World Data Center A [for] Solar and Interplanetary Phenomena, Ionospheric Phenomena [etc.]
Catologue of data on solar–terrestrial physics . . . for the period July 1957–Feb. 1969, 21.1–45
World Health Organization
Water supply research and development needs in developing countries, 21.6–743
World Meteorological Organization
Annual Report, 1968, 21.3–33
Annual report of the World Meteorological Organization 1969, 21.12–20R
How to become a meteorologist, 21.12–32R
Lektsii po chislennym metodam kratko srochnogo prognoza pogody: Regional'nyi Uchebnyi Seminar Vsemirnoi Meteorologicheskoi Organizatsii [Lectures on numerical methods of short-range weather forecasting: Regional Seminar of the WMO], 21.8–104
Manual for depth–area–duration analysis of storm precipitation, 21.5–625

  World Meteorological Organization and its role in water resources development, 21.6–6
  World Weather Watch and its implications in hydrology and water resources management, 21.8–13
World Meteorological Organization. Commission for Hydrometeorology
  Abridged Final Report of the Third Session, Geneva, Sept. 9–21, 1968, 21.5–24
World Meteorological Organization. Commission for Maritime Meteorology
  Abridged Final Report of the Fifth Session, Kingston, Rhode Island, Aug. 19–31, 1968, 21.1–82
World Meteorological Organization. Executive Committee
  Abridged report with resolutions of the 20th Session of the Executive Committee, Geneva, May 30–June 13, 1968, 21.1–83
  Abridged report with resolutions of the 21st Session of the Executive Committee, Geneva, May 29–June 12, 1969, 21.10–59R
World Meteorological Organization. Regional Association I (Africa)
  Abridged Final Report of the 5th Session, Geneva, Oct. 6–17, 1969, 21.12–21R
World Meteorological Organization. Regional Association VI (Europe)
  Abridged Final Report of the 5th Session, Varna, May 6–16, 1969, 21.10–58R
  Activities of the technical commissions, 21.1–84
  Collaboration with other international organizations, 21.1–85
  Data processing for climatological purposes, WMO Symposium in Asheville, 21.1–129
  Economic benefits of meteorology, 21.1–86
  International Hydrological Decade, 21.1–642
  Meteorology and ocean affairs, 21.1–87
  News and notes, 21.1–88
  News from the WMO Secretariat, 21.1–89
  Seminar on agrometeorology, Wageningen, May 1968, 21.1–32
  Technical cooperation, 21.1–90
  Twentieth Session of the Executive Committee, 21.1–91
  World Weather Watch: a progress report, 21.1–92
World Weather Program. U. S. Participation
  Plan for fiscal year 1971, 21.11–47R
Worthington, L. V.
  The Norwegian Sea as a Mediterranea basin, 21.12–756
Wrenn, G. L.
  Conjugate point effect observed for elec tron temperatures in the 1000–2500-k height range (*with* **Shepherd, G. G.**), 21.7–209
  Results derived from simultaneous mea surements using Langmuir plate an spherical ion probe on Explorer-XXX and ionosonde on Alouette-II (*wit* **Smith, P. A.**), 21.10–201
  See also **Samir, U.**, 21.1–318
Wright, Frances W., *see* **Hodge, P. W.** 21.9–519
Wright, J. L., *see* **Lemon, E. R.**, 21.5– 225; 21.6–369
Wright, J. W.
  Interpretation of ionospheric radio drif measurements, Pt. 2 (*with* **Fedor, L. S.**), 21.3–382
Wright, John B.
  The ROBIN falling sphere, 21.12–35
Wright, P. B.
  Effects of wind and precipitation on th spread of foot-and-mouth disease, 21.6–661
  See also **De la Mothe, P. D.**, 21.7–492
Wright, Redwood
  Temperature structure across the Kuroshi before and after Typhoon "Shirley," 21.4–185
Wright, W. R.
  Northward transport of Antarctic Bottom Water in the western Atlantic Ocean, 21.12–763
Wrotenbery, P., *see* **Wang, H. H.**, 21.5–180
Wu, I-Pai
  Flood hydrology of small watersheds: evaluation of time parameters and determination of peak discharge, 21.8–47
Wu, Jin
  Multiple purpose optical instrument for studies of short steep water waves (*with others*), 21.4–655
Wu, S. T.
  Radiative heat flux for an optically thin gas, 21.7–247
Wukelic, George E. (ed.)
  Handbook of Soviet space-science research, 21.9–43
Wulf-Mathies, C., *see* **Schaefer, D.**, 21.9–116
Wunderlich, Walter O.
  Effect of intake elevation and operation

on water temperature (*with* **Elder, R. A.**), 21.5–770
See also **Elder, R. A.**, 21.4–593
Wurzel, P.
Groundwater studies in the Sabi Valley, Rhodesia, using natural tritium measurements (*with* **Ward, P. R. B.**), 21.4–574
Wushiki, Hisao, *see* **Higuchi, K.**, 21.12–514
Wyatt, Bruce, *see* **Gilbert, W.**, 21.1–718; **Barstow, D.**, 21.8–814
Wylie, F. J. (ed.)
Use of radar at sea, 21.1–21
Wyoming. Natural Resource Board, Cheyenne
Wyoming weather facts, 21.4–319
Wyoming, Univ. Natural Resources Research Institute, *see* **Bellamy, J. C.**, 21.4–10
Wyrtki, Klaus
Current observations in the Hawaiian Archipelago (*with* **Graefe, V.** and **Patzert, W.**), 21.4–725
Flights with airborne radiation thermometers in Hawaiian waters, 21.12–773

X

Xanthakis, John
On a relation between the indices of solar activity in the photosphere and the corona, 21.7–766

Y

Yabuki, Hideo, *see* **Shima, M.**, 21.2–418; 21.5–286
Yacob, A.
Solar-cycle periodicity in secular variation of H at Alibag (*with* **Sen, A. K.**), 21.12–644
Yadav, B. R.
Variations in radiation, total ozone and illumination during the solar eclipse of May 20, 1966 at New Delhi (*with* **Sinha, S. S.**), 21.5–442
Yaeke, Lanny Alan
Correlation of oceanic parameters with light attenuation in Monterey Bay, Calif. (*with* **Waer, R. D.**), 21.3–782
Yagi, Tsuruhei
Studies of cirrus clouds, Pt. 4, On the relation between the shape of cirrus clouds and the static stability of the cloud level, 21.7–571
Yagihashi, A., *see* **Ogura, Y.**, 21.4–246
Yamada, Hikoji
Bottom friction problem in coastal hydraulics (*with others*), 21.11–787
On the highest water waves of permanent type (*with* **Shiotani, T.**), 21.1–747
Yamada, Victor M.
Current practices in siting and physical design of continuous air monitoring stations, 21.12–274
Yamaguchi, Masataka, *see* **Iwagaki, Y.**, 21.12–786
Yamakawa, H.
Effect of topography to convective echoes under the southwesterly upper wind condition in the Tohoku District, 21.11–52
Yamamoto, Daikichi, *see* **Tanaka, K.**, 21.10–86R
Yamamoto, Giichi
Effect of thermal stratification on the Ekman layer (*with* **Yasuda, N.** and **Shimanuki, A.**), 21.3–591
Radiative transfer in water clouds in the infrared region (*with* **Tanaka, M.** and **Asano, S.**), 21.7–572
Yamamoto, Katsumi
Total and organic phosphorus in the Japan Sea, 21.4–686
Yamamoto, Roy, *see* **Park, P. K.**, 21.4–577
Yamamoto, Ryozaburo
Propagation velocity of acoustic gravity wave due to large nuclear explosion, 21.7–729
Yamasaki, Masanori
Detailed analysis of a tropical cyclone simulated with a 13-layer model, 21.5–417
Yamashita, A.
Characteristics of winds and wind waves in the vicinity of cyclone in the Northwest Pacific (*with* **Matsumoto, T.**), 21.6–329
Methods of continuous particle sampling by aircraft, 21.5–132
Uncommon ice crystals observed in a large cold room, 21.7–560
Yamashita, K., *see* **Hayakawa, S.**, 21.3–57
Yanai, M.
Axially symmetric meridional motions in the baroclinic circular vortex (*with* **Tokioka, T.**), 21.5–411
Large-scale equatorial waves penetrating from the upper troposphere into the lower stratosphere (*with* **Hayashi, Y.**), 21.4–94
See also **Nitta, T.**, 21.3–422; 21.4–97
Yang, I. K.
Some model experiments of condensation, 21.1–596
Yank, B. T., *see* **Meroney, R. N.**, 21.11–239

Yanowitch, M.
Effect of viscosity on gravity waves and the upper boundary condition, 21.7–243

Yao, Augustine Y. M.
Characteristics and probabilities of precipitation in China, 21.7–592
Climatic hazards to the agricultural potential in the North China Plain, 21.5–621
R index for plant water requirement, 21.5–570

Yarborough, John M., *see* **Hagn, G. H.**, 21.9–454

Yariv, Amnon, *see* **Laussade, J. P.**, 21.4–365

Yasuda, Nobuhisa, *see* **Yamamoto, G.**, 21.3–591

Yasuhara, Michihiro, *see* **Ogawa, T.**, 21.12–306

Yasui, Masashi
Report of the *Hecateus* Expedition-II in the Okhotsk Sea, 1967, Pt. 4 (*with others*), 21.3–799

Yasuoka, Takeo
Report of the *Hecateus* Expedition-II in the Okhotsk Sea, 1967, Pt. 2, 21.3–795

Yata, Akira
MT-135 wire sensing element, 21.12–90

Yates, R. A., *see* **Taylor, J. A.**, 21.1–18

Yeager, D. M.
Large temporal variations of energetic electron intensities at midlatitudes in the outer radiation zone (*with* **Frank, L. A.**), 21.4–155

Yee, Layton, *see* **Sommer, S. C.**, 21.7–753

Yee, Leona
Applications of the net radiometer to short-range fog and stratus forecasting at Eugene, Oregon (*with* **Bates, E. M.**), 21.11–116

Yeh, Gour-Tsyh, *see* **Brutsaert, W.**, 21.5–555

Yeh, H.C., *see* **Liu, B. Y. H.**, 21.9–435

Yeh, K. C., *see* **Fritz, J. H.**, 21.9–164

Yeh, Richard S.
Alpha-particle emmisivity of the Moon (*with* **Van Allen, J. A.**), 21.4–479

Yeh, T. T., *see* **Van Atta, C. W.**, 21.11–243

Yeh, Tu Cheng
Preliminary study of the instability and development of ultra-long waves (*with* **Wang, H. L.**), 21.1–395

Yen, B. C.
Study of surface runoff due to moving rainstorms (*with* **Chow, V. T.**), 21.10–412

Yen, Ben Chie, *see* **Chow, V. T.**, 21.11–688

Yen, Yin-Chao
Harmonic analysis of snow temperature (*with* **Dotson, J. W.**), 21.4–297
Recent studies on snow properties, 21.4–29

Yevjevich, Vujica M.
Modern developments of hydrology an their impact within the Internationa Association of Scientific Hydrology 21.9–568
Properties of non-homogeneous hydrologi series (*with* **Jeng, R. I.**), 21.5–745
See also **Saldarriaga, J.**, 21.11–383 **Todorovic, P.**, 21.5–610

Ying, S. J.
Exploratory model study of tornado-lik vortex dynamics (*with* **Chang, C. C.**) 21.6–341
See also **Chi, S. W.**, 21.12–390

Yokosi, Shoitiro
Turbulent energy dissipation in a rive flow, 21.11–737
See also **Ishihara, Y.**, 21.2–603; 21.11–73

Yokota, Yoshio, *see* **Naito, K.**, 21.3–92

Yokoyama, Osayuki
Measurements of wind fluctuations by vane mounted on the captive balloo cable, 21.4–219

Yonts, Woodrow L., Jr.
Servopsychrometer, 21.10–80

York, J. Louis, *see* **Hales, J. M.**, 21.7–14

Yoshida, S., *see* **Akasofu, S. I.**, 21.12–433

Yoshida, Shizuo
Effect of thawing rate on freezing injury in plants, Pt. 2, The change in th amount of ice in leaves as produced by the change in temperature (*with* **Sakai A.**), 21.7–446
Studies on the spring frost damage i plants, Pt. 2, The effect of sunshine i the early morning upon the spring fros damage in young Todo firs (*with* **Sakai A.** and **Watanabe, T.**), 21.7–447
See also **Sakai, A.**, 21.8–323

Yoshimura, Hisato, *see* **Japanese Society of Biometeorology, 7th Meeting, Tokyo** 21.10–52R

Yoshino, M.
Climatic division of Chugoku and Shikok Districts, Japan, 21.8–503
Climatic division of Kanto District, Japan 21.8–504
Summer pressure pattern and temperatur distribution in relation to its anomaly over East Asia, 21.8–328

Yoshino, Masatoshi M.
Intertropical convergence zone and pola

frontal zone over South, Southeast and East Asia, 21.6–303

Young, A. T.
High-resolution photometry of a thin planetary atmosphere, 21.8–749

Young, C., *see* **Drayson, S. R.,** 21.12–417

Young, David A., *see* **Neshyba, S.,** 21.10–795

Young, Ernest Tillson, Jr., *see* **Ramzy, J. R.,** 21.11–308

Young, Gale
Dry lands and desalted water, 21.6–841

Young, J. A.
Cosmogenic radionuclide production rates in the atmosphere, 21.12–334

Young, Robert A., *see* **Bredehoeft, J. D.,** 21.12–682

Youngs, E. G., *see* **Dos Santos, Jr., A. G.,** 21.4–557

Younker, E. Leroy, *see* **Chindahporn, R.,** 21.10–532

Yu, Peter T.
Survival of plants under prolonged flooded conditions (*with* **Stolzy, L. H.** and **Letey, J.**), 21.7–660

Yu, Shaw Lei
Generation of an evaporation time series for Lake Ontario (*with* **Brutsaert, W.**), 21.4–262
Stochastic aspects of Lake Ontario evaporation (*with* **Brutsaert, W.**), 21.7–540

Yuan, F. F. F.
Simultaneous geomagnetic and cosmic noise absorption pulsations near geomagnetic noon (*with* **Jacka, F.**), 21.8–303

Yuen, Kenneth B.
Numerical study of large-scale motions in a two-layer rectangular basin, 21.7–817

Yukutake, Takesi
Separation of the Earth's magnetic field into the drifting and the standing parts (*with* **Tachinaka, H.**), 21.1–680

Z

Zabel, M., *see* **Kempf, H.,** 21.10–787

Zabelina, G. M., *see* **Bachurina, A. A.,** 21.12–415

Zabolotskaia, T. N.
Data on the erosive action of water drops, 21.10–396
Ob izmenchivosti spektra kapel' v dozhde [The variability of dropsize distribution in rain] (*with* **Fishman, B. E.**), 21.10–397
Razvitie ochagov livneĭ po dannym radiolokatsionnykh nabliudeniĭ [The development of cloudburst foci according to radar observations] (*with* **Muchnik, V. M.**), 21.10–378

Zacharov, Igor
Mesures crépusculaires au niveau de 25-mb [Twilight measurements at the 25-mb level], 21.9–418

Zadneprovskii, R. P.
K opredeleniiu skorosti prosachivaniia vody v pochvo-grunty [The determination of water percolation rate into soils], 21.8–499

Zahner, R.
Water deficits and growth of trees, 21.8–500

Zaichikov, P. F.
Vliianie armatury termouzla na teplovye oshibki termorezistora radiozonda RKZ [Effect of fittings of the thermometric unit on the heat errors of a RKS radioprobe thermistor] (*with* **Fridzon, M. B.**), 21.12–91

Zaĭtsev, A. N., *see* **Belousov, B. G.,** 21.10–152

Zaĭtsev, V. P., *see* **Zelenkova, I. A.,** 21.1–210

Zaĭtsev, V. V.
O parametrakh udarnykh voln, generiruiushchikh solnechnye radiovspleski II tipa, i magnitnykh poliakh v korone [Parameters of shock waves generating solar radio bursts of the type II and magnetic fields in the corona] [and English transl.], 21.2–429
See also **Zhelezniakov, V. V.,** 21.12–594

Zaĭtseva, N. A.
Shirotnye i vremennye izmeneniia polia dlinnovolnovoĭ radiatsii v tsentral'noĭ chasti Tikhogo okeana [Latitudinal and time variations of the long-wave radiation field over the Central Pacific] (*with* **Kostianoĭ, G. N.**), 21.4–134
Vremennoe izmenenie polia dlinnovolnovoĭ radiatsii v letniĭ period [The time variation of the long-wave radiation field in summer] (*with* **Kostianoĭ, G. N.**), 21.4–135

Zaĭtseva, S. A., *see* **Beliakova, S. I.,** 21.1–374

Zak, A. I.
Gidrologicheskaia priroda selei v Armianskoi SSR i metod prognoza seleopasnosti [Hydrological nature and method of forecasting mudflows in Armenia], 21.12–169

Zakhariev, V.
Osobenosti na atmosfernata tsirkuliatsiia i klimata na Antarktida [Peculiarities of the atmospheric circulation and climate of Antarctica], 21.7–267
Vŭrkhu otklonenieto na viatŭra na visokoplaninskite nabliudatelnitsi ot viatŭra v svobodnata atmosfera (*with* **Lalovski, Khr.**), 21.7–519
Zakharov, V. F.
Presnovodnye morskie zalivy [Fresh-water sea bays], 21.9–661
Zakharov, V. N.
Ob izmerenii gorizontal'nykh ionosfernykh dreifov v dvukh blizkoraspolozhennykh punktakh [Measurement of horizontal ionospheric drifts in two closely-situated points] (*with others*), 21.12–313
Zakharova, N. M.
Ob ispol'zovanii predvestnikov oseni pri sostavlenii prognozov pogody na sentiabr' [Using the signs of autumn in the preparation of weather forecasts for September], 21.2–34
Osobennosti polia H_{500} na Severnom Polusharii v estestvennykh sinopticheskikh sezonakh [Characteristics of the H_{500} field in the Northern Hemisphere in natural synoptic seasons], 21.9–410
Osobennosti tsirkuliatsii v nizhnei stratosfere v ekstremal'no kholodnykh i teplykh sezonakh oseni [Characteristics of lower stratosphere circulation during extremely cold and hot falls], 21.9–200
Zakhashvili, M. A.
Metodika prognoza pogodnykh uslovii, sposobstvuiushchikh obrazovaniiu selevykh iavlenii na osnovnykh selenosnykh rekakh Zakavkaz'ia [A method for forecasting the weather conditions causing the formation of mud-flow phenomena on the main mud-carrying rivers of Transcaucasia], 21.11–121
Zalesskiĭ, F. V.
Analyse de la formation des crues pluviales dans les conditions de permafrost (dans l'Extrême Nord-Est de l'Union Soviétique) [Analysis of the formation of rainfall floods under permafrost conditions in the extreme northeast of the Soviet Union], 21.8–479
O razrabotke norm rascheta maksimal'nykh raskhodov vody dozhdevykh pavodkov [The elaboration of normals for the calculation of maximum water discharge of rainfall floods], 21.5–653
Zalikhanov, M. Ch.
Lavinnaia opasnost' dolin rek Gizel'don Baddon [Avalanche hazards in the valleys of the Gizel'don and Baddon Rivers (*with* **Gutiev, A. V.**), 21.9–333
Vliianie lavin na vysotu verkhneĭ granits lesa v Kabardino–Balkariĭ [Effect o avalanches on the altitude of the uppe forest boundary in the Kabardino-Balkarii region], 21.9–332
Zalivadnyĭ, V. S.
Use of a dynamic heat-capacity moistur meter in soil science, 21.10–82
Zalkan, Robert L.
Internal waves of tidal periodicity, 21.4–772
Observation of high frequency interna waves in the Pacific Ocean, 21.4–779
Zamammurad, Kh.
Movement of water in stratified soils during evaporation (*with* **Frid, A. S.** 21.10–439
Zambia
Totals of Monthly and Annual Rainfal Season 1967/1968, 21.7–593
Zambia. Dept. of Meteorology
Climate of Zambia, 21.4–320
Daytime surface wind frequencies for Jan. April, July, and Oct., 21.5–514
Sun angels, 21.4–497
Sunrise and sunset tables for Zambia 21.4–498
Zancla, Antonino, *see* **Buoni, F.,** 21.11–62
Zaneveld, J. Ronald V.
Measurements of optical properties at a oceanic front observed near the Galapagos Islands (*with* **Andrade, M.** an **Beardsley, G. F., Jr.**), 21.9–713
Zarea, St.
Unele rezultate ale experimentăii în laborator a metodei acustice de disipare a ceţii [Some results from a sound metho of fog dissipation tested in laboratory (*with* **Căpuz, C.**), 21.10–125
Zastenker, G. N., *see* **Khokhlov, M. Z.** 21.8–281
Zatsepin, G. T.
O neitrinnoi spektroskopii Solntsa [Neutrino spectroscopy of the Sun] (*wit* **Kuz'min, V. A.**), 21.8–310
Zavadovskiĭ, V. M.
Ustroĭstvo dlia izmereniia maksimal'no skorosti vetra [An instrument for measuring maximum wind velocity] (*wit* **Zlatin, A. L.** and **Sukhachev, A. T.**) 21.9–65
See also **Ryzhikova, S. M.,** 21.9–33

Zavarina, M. V.
  O raschetnykh skorostiakh vetra na vysote 300 m [Computed wind speeds at the 300 m height] (*with* **Borisenko, M. M.**), 21.5–515
  Otsenka predel'nykh znacheniĭ veroiatnosti poiavleniia redkikh sobytiĭ [Calculation of the limiting values of probable occurrence of rare meteorological events] (*with* **Klingo, V. V.**), 21.5–25
  Research in applied climatology, 21.9–97R
  See also **Borisenko, M. M.**, 21.4–221, –222
Zavatti, S.
  Osservazioni meteorologiche nella Baia di Hudson [Meteorological observations in the Hudson Bay], 21.2–288
Zavelevich, I. M., *see* **Burdakov, F. I.**, 21.1–195
Zavertnev, M. P., *see* **Antonov, V. S.**, 21.11–382
Zav'ialova, I. N.
  Temperaturno-vlazhnostnyĭ rezhim Arktiki v letniĭ period [Temperature and moisture regime of the Arctic in the summer period], 21.4–165
Zawadzki, Isztar I.
  HARPI, 1967: The development and use of a height–azimuth–range position indicator (*with* **Ballantyne, E.**), 21.12–106
Zazzara, G., *see* **Cochemé, J.**, 21.5–190
Zdanovich, V. G. (ed.)
  Methods for studying ocean currents by aerial survey, 21.9–725
Zdunkowski, Wilford G.
  Incomplete blackness of clouds in the infrared spectrum (*with* **Choronenko, I.**), 21.6–385
  Light scattering constants for a water cloud (*with* **Strand, R. F.**), 21.5–453
  Prediction of the nocturnal temperature profile in the absence of fog (*with* **Trask, D. C.**), 21.7–93
  Preliminary prediction analysis of radiation, 21.8–106
  Radiative transfer in a cloud (*with* **Mecham, D.**), 21.7–341
Zeh, Dale W., *see* **Spiegel, J. M.**, 21.8–743
Zeitoun, M. A.
  Disposal of the effluents from desalination plants into estuarine waters (*with others*), 21.2–715
Zeĭtunian, R. Kh., *see* **Blanchet, J.**, 21.3–286, –287
Żejmo, Irena, *see* **Rymaszewska, M.**, 21.4–556
Zelenkov, V. E., *see* **Zelenkova, I. A.**, 21.1–210
Zelenkova, I. A.
  Izmerenie pogloshcheniia v ionosfere metodom A5 [Absorption measurement in the ionosphere by the A5 method] (*with* **Zelenkov, V. E.** and **Zaĭtsev, V. P.**), 21.1–210
Zelený, Jaroslav
  Sledovani difuze ve zvlněném terénu [A study of diffusion in rolling terrain], 21.7–488
Zeleny, V.
  Runoff conditions during snow thawing in the Moravian–Silesian Beskids, 21.8–448
Zeltmann, Walter F.
  Criteria for rain gages for general climatology [and Comment by] **Daniel A. Mazzarella**, 21.3–207
Zeng, Quin Zun
  Characteristic parameters and dynamical equations of atmospheric motions, 21.1–364
Zenk, Walter
  Salzgehaltsprofile im Mittelmeerwasser westlich von Gibraltar [Salt content profiles in Mediterranean waters west of Gibraltar], 21.4–712
Zerche, Manfred
  Einige klimatologische Betrachtungen über die Sonnenscheindauer 1947/66 an der Ostseeküste und im Binnenland Mecklenburge [Climatological commentary on sunshine duration, 1947–1966, on the Baltic coastal and inland areas of Mecklenburg], 21.3–503
Zetler, Bernard D.
  Tides in the Gulf of Mexico: a review and proposed program (*with* **Hansen, D. V.**), 21.12–800
  See also **Cartwright, D.**, 21.4–766; **Smith, John A.**, 21.2–756
Zettel, Ralph A., *see* **Morrill, P. A.**, 21.10–84
Zhantuarov, R. S., *see* **Dul'kin, V. N.**, 21.4–760
Zhavoronkov, E. G., *see* **Britaev, A. S.**, 21.4–40
Zhelezniak, I. A.
  Grafik vodootdachi raschetnogo polovod'ia [A graph of water yield of a design high-water period] (*with* **Molodykh, V. P.**), 21.4–586
  A method for the calculation of spring floods (*with* **Byshovets, L. B.**), 21.8–787

Ruslovaia emkost', vodootdacha rechnogo basseĭna i gidrograf polovod'ia maloĭ reki [Channel storage, river basin water yield, and small river spring flood hydrographs], 21.4–587

Zhelezniakov, G. V.
Integro-differentsial'nye uravneniia neustanovivshegosia dvizheniia vody v rekakh [Integral and differential equations for unstationary water motion in rivers], 21.11–738

Zhelezniakov, V. V.
K teorii vspleskov solnechnogo radioizlucheniia III tipa, II [Theory of bursts of the solar radioradiation of type III, Pt. 2] (*with* **Zaitsev, V. V.**), 21.12–594

Zhelnov, B. L., *see* **Vitlina, R. Z.**, 21.7–327

Zheltaia, N. N.
K voprosu o razlichiiakh zapasov produktivnoĭ vlagi v pakhotnom sloe pochvy mezhdu sosednimi stantsiiami [Problem of differences in reserves of productive moisture in the top soil layer between neighboring stations], 21.9–364

Zhitkovskiĭ, Iu. Iu.
Svoĭstva zvukovykh signalov, otrazhennykh poverkhnost'iu okeana [Properties of sound signals reflected from the ocean surface], 21.10–800

Zhitnik, I. A., *see* **Gel'freikh, G. B.**, 21.12–597

Zhitskaia, N. V.
Thickness characteristics of ice on the Pripyat' River [Transl. from Russian], 21.4–626

Zhmurko, V. Ia.
Study of ice dynamics in the Gulf of Tartary by radio-physical methods, 21.9–98R
See also **Syrovatskiĭ, S. I.**, 21.2–475

Zhugzhda, Iu. D.
Svoistva nizkochastotnoĭ kolebatel'noĭ konvektsiĭ v sil'nom magnitnom pole [Properties of low frequency oscillatory convection in the strong magnetic field], 21.12–649

Zhukov, L. A.
Chislennyĭ raschet vertikal'nykh dvizheniĭ v neodnorodnom okeane [Numerical calculation of vertical motions in a nonhomogeneous ocean], 21.10–816

Zhukov, L. V.
Korreliatsionno-spektral'nyĭ analiz periodichnosteĭ aktivnosti solntsa [A correlational-spectral analysis of the solar activity periodicities] (*with* **Muzalevskiĭ, Iu. S.**) [and English transl.], 21.5–716

Zhukov, V. A., *see* **Senin, E. V.**, 21.11–217

Zhukov, V. M.
Struktura teplovogo balansa vostochnoĭ chasti Vasiugan'ia v zasushlivyĭ god [Thermal balance structure in the eastern part of Vasiugan' in a dry year], 21.9–212

Zhukovskiĭ, A. P.
Sluchainoe elektromagnitnoe pole i ego momenty raspredeleniia pri otrazhenii voln ot protiazhennoĭ sherokhovatoĭ poverkhnosti [A random electromagnetic field and its distribution at wave reflection from an extended rough surface], 21.10–571

Zhulina, E. M.
Vliianie kol'tsevogo toka na polozhenie zony avroral'nogo pogloshcheniĭa [An influence of a ring current on the location of the auroral absorption zone], 21.9–453
See also **Gorbushina, G. N.**, 21.2–366

Zhupakhin, K. S., *see* **Sal'man, E. M.**, 21.1–122

Ziegenbein, J.
Short internal waves in the Strait of Gibraltar, 21.9–749

Zielińska, Maria
Przyczunek do obliczaniz prędkości w korytach rzeczych w oparciu o współczynnik szorstkości [Contribution to the determination of stream water velocity on the basis of the roughness factor] (*with* **Czernuszenko, W.**), 21.11–734

Zier, Manfred
Lokale Einfluesse auf die Radioaktivität der Luft und des Ausfalls [Local effects on air and fallout radioactivity], 21.1–345
Phasenbeziehungen und territoriale Repräsentativitat von Tagesmittelwerten der langlebigen Gesamt-β-Aktivität der Aerosole [Phase relations and area representativity of daily mean totals of long-lived total-β-activity of aerosols], 21.12–338
Staubgehaltsmessungen mit Membranfiltern [Measuring the dust content of the atmosphere with membrane filters], 21.1–207; 21.6–112
Uber die raumliche Ausdehnung radioaktiver Luftkorper [Size of radioactive air masses], 21.12–332

Zietara, Tadeusz

Rola gwałtownych ulew i powodzi w modelowaniu rzeźby Beskidow [Part played by torrential rains and floods on the relief of Beskid Mountains], 21.9–324

Zietlow, Carl R., *see* **Monahan, E. C.,** 21.11–778

Zilitinkevich, S. C.

O raschete global'nykh iavlenii vzaimodeĭstviĭa okeanov i atmosfery [Calculation of global phenomena of air–sea interaction], 21.7–268

Zilitinkevich, S. S., *see* **Monin, A. S.,** 21.3–339

Zillman, J. W.

Southern Ocean sea–air energy exchange (*with* **Dingle, W. R. J.**), 21.12–353

Zimmer, F. C., *see* **Russell, S.,** 21.10–186

Zimmer, Harro

Ergebnisse der sowjetischen Venussonden V und VI [Results of the Soviet Venus probes V and VI], 21.12–605

Zimmerman, Leon I.

Atmospheric wake phenomena near the Canary Islands, 21.4–89

Zimmerman, Samuel P.

Turbulent atmospheric parameters determined from radio meteor trails, 21.1–488

Zimont, I. L.

Formation of rainfall floods on small watersheds; principles of maximum storm runoff computation (*with* **Suprunov, U. G.**), 21.8–480

Zin, Aung, *see* **Tin, Aye Nyein,** 21.11–107

Zindler, H.

Bestimmung der verweilzeit von Spaltrodukten in der Stratosphäre aus der Gesamt-β-, Strontium 89- und Strontium 90-Aktivität im Fallout [Determining the time of exposure of fission products in the stratosphere from the total beta, strontium 89, and strontium 90 activity in fallout], 21.1–346

Zingg, John G., *see* **Johnson, N. E.,** 21.6–541

Zin'kovskaia, T. S.

O predstavleniĭ mesiachnogo polia H_{500} na severnom polushariĭ pri pomoshchi ego razlozheniĭa po estestvennym ortogonal'nym sostavliaiushchim [Presentation of the monthly field H_{500} in the Northern Hemisphere with the aid of its decomposition according to naturally orthogonal components], 21.5–186

Zinov'eva, E. M., *see* **Petrova, R. S.,** 21.2–553

Zipser, Edward J.

Role of organized unsaturated convective downdrafts in the structure and rapid decay of an equatorial disturbance, 21.3–484

Survey of progress and plans in tropical meteorology experiments, 21.7–10

See also **Madden, R. A.,** 21.10–345

Zirin, Harold

De-occultation X-ray events of Dec. 2, 1967, 21.11–643

Interpretation of XUV spectroheliograms, 21.11–666

Mass motions in loops, sprays, surges, etc., 21.2–495

Two prominence eruptions and the problem of emission, 21.11–644

See also **Simon, M.,** 21.8–757; **Vorpahl, J.,** 21.11–301

Zlatin, A. L.

Tipovye uzly avtomaticheskikh ustroĭstv diskretnogo deĭstviĭa na elementakh peremennogo toka [Instrument packs with a/c elements for automatic discrete action mechanisms], 21.9–73

See also **Zavadovskiĭ, V. M.,** 21.9–65

Zmieva, E. S.

Prognoz vesennego stoka na vodosborakh Podmoskovnoĭ stokovoĭ stantsii [Prognosis of spring runoff on water sheds of the Podmoskovna runoff station], 21.12–681

Utochnenie dolgosrochnogo prognoza kharakteristik vesennego polovod'ia po pritoku i ob"emem vody v rechnoĭ seti [More accurate long-range forecasting of the characteristics of spring floods based on the flow and volume of water in a river network] (*with* **Dendenkova, N. S.**), 21.2–525

Zolotaryov, I. A., *see* **Leonov, L. F.,** 21.12–185

Zore-Armanda, Mira

Water exchange between the Adriatic and the Eastern Mediterranean, 21.1–739

Zotkin, I. T.

Anomal'nye sumerki, sviazannye s Tungusskim meteoritom [Anomalous twilights associated with the Tunguska meteorite], 21.9–419

Zschörner, Helmut, *see* **Paetzold, H. K.,** 21.5–331

Zsuffa, I.

Analyse de la durée des crues [Analysis of flood duration], 21.10–708

See also **Bukovszky, G.**, 21.9–307; **Wirth, P.**, 21.9–588

Zubkovskii, S. L.
Eksperimental'noe issledovanie spektrov turbulentnykh potokov tepla i kolichestva dvizheniia v prizemnom sloe atmosfery [Measurement of spectra of turbulent heat and momentum fluxes in the atmospheric surface layer] (*with* **Koprov, B. M.**) [and English transl.], 21.4–211

Zuckerberg, Fred L., *see* **Spar, J.**, 21.6–325

Zuellig, —, *see* **Dütsch, H. U.**, 21.7–167

Zuev, V. M.
Naledi: opasnoe sezonnoe iavlenie prirody [Freezing on ice: a dangerous seasonal natural phenomenon], 21.2–641

Zuev, Vladimir Evseevich
Atmospheric transparency in the visible and the infrared, 21.9–99R
Eksperimental'noe opredelenie komponentov kompleksnogo pokazatelia prelomleniia vody v vidimoĭ i infrakrasnoĭ oblastiakh spektra [Experimental determination of the components of the complex refraction index of water in the visual regions of the spectrum] (*with* **Sonchik, V. K.**) [and English transl.], 21.4–667
Prozrachnost' prizemnogo sloia atmosfery dlia izlucheniĭ nekotorykh OKG v infrakrasnoĭ oblasti spektra [Transparency of the atmospheric surface layer for some lasers in the infrared (*with* **Sosnin, A. V.** and **Khmelevtsov, S. S.**), 21.1–178

Zuidema, P.
Asthma, Bronchitis und Hoehenklima [Asthma, bronchitis and Alpine climate], 21.8–561

Zung, Joseph T., *see* **Carstens, J. C.**, 21.11–374

Zverev, Alekseĭ Semenovich
Sinopticheskaia meteorologiia i osnovy predvychisleniia pogody [Synoptic meteorology and principles of weather forecasting], 21.2–36

Zverev, N. I.
O ritmicheskoĭ deiatel'nosti atmosfere [Rhythmic activity in the atmosphere], 21.3–440
Sposob prognoza polia H_{500} na iiul' [Means of forecasting the H_{500} field for July] (*with* **Kozel'tseva, V. F.**), 21.11–122

Zvereva, S. V.
O pogloshchenii solnechnoĭ radiatsii atmosfernym vodianym parom [Absorption of solar radiation by atmospheric water vapor], 21.1–463

Zwart, B.
Nieuw wereldrecord hoogste luchtdruk [New world record of highest air pressure], 21.4–188
Strenge winter in Scandinavie gefoto grafeerd door ESSA-8 [Severe winter in Scandinavia photographed by ESSA-8], 21.12–52

Zych, A. D.
Upper limits for high-energy neutrons from two importance-1 solar flares (*with* **Frye, G. M., Jr.**), 21.7–425

Zykov, I. K., *see* **Bizunov, V. P.**, 21.12–584

Zykova, A. S.
Radioaktivnye vypadeniia v Moskve v 1962–1967 gg. [Radioactive fallout in Moscow during 1962–1967] (*with others*), 21.9–192

Zykova, Galina Georgievna
Prodolzhitel'nostl periodov s nizkimi temperaturami na Aziatskoĭ chasti SSSR [The duration of periods with low temperatures on the Asiatic territory of the U.S.S.R.], 21.6–446

Subject Index

A

- **AFCRL research, bibliography**
  - U. S. Air Force. Cambridge Research Labs., 21.9–140R, –141R
- **Ångström pyrheliometer**
  - Klevantsova, V. A. et al., 21.1–169; 21.8–55
- **Abbot pyranometer**
  - Marsh, V., 21.6–74
- **Ablation**
  - Markin, V. A., 21.2–624
- **Absorption bands**
  - Hanel, R. et al., 21.8–241
- **Absorption by ice**
  - Shishokin, S. A., 21.4–146, –147
  - Whalley, E., 21.6–815
- **Absorption by ozone**
  - Rigaud, P., 21.6–674
  - Vigroux, E., 21.8–157
- **Absorption coefficient of radio waves**
  - Demin, V. V., 21.9–154
- **Absorption coefficients**
  - Vigroux, E., 21.8–157
- **Absorption spectra**
  - Fridovich, B., 21.3–640
  - Hoidale, G. B. et al., 21.5–257
- **Absorptive materials**
  - Eliseev, A. A., 21.6–71
- **Abstracting periodicals**
  - Ulbrich, Š., 21.1–79
- **Abyssal circulation**
  - Kuo, Han-Hsiung, 21.12–755
- **Acclimatization**
  - Matusov, A. L., 21.7–661
- **Acclimatization to polar climates**
  - Matusov, A. L., 21.7–690
- **Acoustic field–fog dissipation effects**
  - Zarea, St. et al., 21.10–125
- **Acoustic gravity wave generation**
  - Cole, J. D. et al., 21.8–658
  - Knabe, W. E. et al., 21.7–727
  - Murty, R. C. et al., 21.5–497
  - Pierce, A. D., 21.5–682
- **Acoustic gravity wave in ionosphere**
  - Chang, N. J. F., 21.11–177
- **Acoustic gravity wave propagation**
  - Balachandran, N. K. et al., 21.4–388
  - Einaudi, F., 21.5–681
  - Friedman, J. P. et al., 21.8–659
  - McLellan, A., IV, 21.6–280
  - Vincent, R. A., 21.1–363
  - Wait, J. R., 21.4–390
  - Yamamoto, R., 21.7–729
- **Acoustic gravity waves**
  - Reddy, C. A., 21.7–229
- **Acoustic gravity waves symposia**
  - Symposium on Acoustic Gravity Waves in the Atmosphere, 21.5–683
- **Acoustic pressure waves**
  - Bhartendu, —, 21.2–393
- **Acoustic propagation in sea water**
  - Clay, C. S. et al., 21.2–704
- **Acoustic velocity meters**
  - Smith, W., 21.6–126
- **Acoustic wave propagation**
  - Nikolaev, Iu. M., 21.3–691
- **Acoustical anemometers**
  - Fateev, N. P. et al., 21.8–59
  - Persin, S. M. et al., 21.8–58
  - Popov, M. V., 21.8–61, –64, –65
- **Acoustical dispersal of fog**
  - Vial'tsev, V. V., 21.11–137
- **Acoustical energy of thunder**
  - Few, A. A. et al., 21.8–665
- **Acoustical propagation**
  - Cook, Richard K., 21.10–549
  - Frick, R. H., 21.11–544
  - Kudriashov, V. M., 21.1–667
  - Wait, J. R., 21.8–663
- **Acoustical sounding of turbulence**
  - Grigoriu, A., 21.8–23
- **Acoustical soundings**
  - Little, C. G., 21.8–660
  - McAllister, L. G., 21.11–30
  - Posmentier, E. S. et al., 21.6–24
- **Acoustical temperature determination**
  - Fox, H. L., 21.6–27
  - Grigoriu, A., 21.8–23
  - Kibiński, J. M., 21.3–65
- **Acoustical thermometers**
  - Persin, S. M. et al., 21.8–58
- **Acoustical transmission in seawater**
  - Gostev, V. S. et al., 21.10–813
- **Acoustical wind sounding**
  - Fox, H. L., 21.6–27
  - Grigoriu, A., 21.8–23
- **Actinometers**
  - Kozyrev, B. P. et al., 21.1–171
  - Pitts, J. N., Jr. et al., 21.4–23
- **Actinometric data**
  - Bucharest, Observatorul de Fizica Atmosferei, 21.10–42
- **Actinometry**
  - Sivkov, S. I., 21.9–82R
- **Actinometry symposia**
  - Mezhvedomstvennoe Soveshchanie po Aktinometrii i Optike Atmosfery, 6th, Tartu, 21.1–29
- **Adiabatic lapse rate**
  - Staley, D. O., 21.7–755
- **Admixture injections**
  - Osipov, Iu. S., 21.2–87
- **Advection effects**
  - Djuric, D., 21.9–270

McPherson, G. A., 21.11–110

Advection fog forecasting
Miyazono, S., 21.6–140

Advective equations
Morford, D. R., 21.3–227

Advective heat flow
Bell, B., 21.6–262

Advective temperature change
Hansel, C., 21.4–175

Aerial cloud photography
Magono, C., et al., 21.4–271
Weinstein, M. et al., 21.4–273

Aerial crop spraying
Campbell, D. A., 21.9–611

Aerial crop surveys
Barron, N. A. et al., 21.10–405

Aerial ice surveys
Rondy, D. R., 21.4–627

Aerial ocean current surveys
Zdanovich, V. G. (ed.), 21.9–725

Aerial oceanography surveys
Wilkerson, J. C., 21.11–773

Aerial photogrammetry
Weinstein, M. et al., 21.4–273

Aerial photography
Burgess, L. C. N., 21.8–470

Aerial photography applications
Ramey, Everett H., 21.12–654
Sharikov, Iu. D., 21.8–847
Wert, S. L., 21.12–272

Aerial photography of crops
Mokievskiĭ, V. M. et al., 21.8–681

Aerial reconnaissance photography
Lufkin, D. H., 21.2–345

Aerial sea surface temperature surveys
Noble, V. E. et al., 21.10–824

Aerial snow and ice reconnaissance
Bilello, M. A., 21.1–625

Aerial snow surveys
Dmitriev, A. V., 21.11–398

Aerobee rockets
D'Arcy, E. M. et al., 21.3–142

Aeroclimatic handbooks
Gavrilova, Z. I., 21.2–8

Aeroclimatology
Gavrilova, Z. I., 21.2–331

Aerodispersion system stability
Morachevskiĭ, V. G., 21.5–575

Aerodynamic drag and heating
Hopkins, E. J., 21.7–732

Aerodynamic turbulence seminars
Morkovin, M. V. et al., 21.9–195
U. S. Langley Research Center, 21.5–688

Aerodynamics
Walz, A., 21.5–503

Aerological analysis
Fujishara, S., 21.1–232

Aerological diagrams
Uspenskiĭ, B. D., 21.3–54

Aerological networks
Alaka, M. A. et al., 21.5–157
Shliakhov, V. I., 21.3–51
Williamson, L. E., 21.4–19

Aerological stations
Ackermann, P., 21.3–94
Newkirk, G., Jr. et al., 21.5–37

Aeronautical meteorology for 1970s
Schwarz, U., 21.10–12

Aerosol absorption
Hoidale, G. B. et al., 21.4–143
Rigaud, P., 21.6–674
Zuev, V. E., 21.9–99R

Aerosol analysis
Junce, C. et al., 21.5–261
Morachevskiĭ, V. G., 21.12–250

Aerosol–atmospheric conductivity effects
Burke, T. P. et al., 21.8–612

Aerosol beta activity observation
Finland. Ilmatieteen Laitos, 21.1–127

Aerosol chemical composition
Lee, R. E., Jr. et al., 21.5–264

Aerosol chemistry
Davis, B. L., 21.6–568

Aerosol composition
Abel, N. et al., 21.7–127
Chow, T. J. et al., 21.5–240
Eggleton, A. E. F., 21.5–246
Heard, M. J. et al., 21.5–254
Hoidale, G. B., 21.12–240
Junge, C. et al., 21.5–261
Lee, R. E., Jr. et al., 21.5–264
Loucks, R. H., 21.12–245

Aerosol concentration
Blifford, I. H., Jr. et al., 21.1–566
Dalu, G., 21.8–136, –647
Mani, A., 21.11–492
Peterson, C. M. et al., 21.5–279
Reiter, R., 21.12–519
Sekikawa, T. et al., 21.8–647
Unz, F., 21.5–299

Aerosol conferences
International Conference on Condensation and Ice Nuclei, 21.12–499

Aerosol counters
Beliaev, S. P. et al., 21.3–213
Brown, P. M., 21.7–59

Aerosol data, Poland
Polska Akademia Nauk. Zakład Geofizyki, 21.9–213R

Aerosol deposition
Dunskiĭ, V. F., 21.9–25R
Ivlev, L. S., 21.10–20R
Klepikova, N. V., 21.3–335
Matveev, L. T. et al., 21.8–142
Voloshchuk, V. M. et al., 21.3–338; 21.12–269

Aerosol diffusion
- Diaconescu, Gh. I. et al., 21.3–334
- Jennings, S. G., 21.12–476
- Klepikova, N. V. et al., 21.3–335
- Luna, R. E. et al., 21.10–329
- Mészáros, 21.5–271
- Reiter, R., 21.3–400
- Tang, Chung Muh, 21.11–241

Aerosol diffusion–eddy diffusivity relationship
- Heldman, D. R., 21.11–160

Aerosol diffusion over mountains
- Willis, P. T., 21.10–146

Aerosol dispersion
- Heldman, D. R., 21.11–160
- Matveev, L. T. et al., 21.8–142
- Voloshchuk, V. M., 21.3–337

Aerosol distribution
- Foitzik, Leonhard, 21.7–704
- Ivlev, L. S., 21.10–21R
- Kondrat'ev, K. Ia., 21.10–26R
- Simon, A., 21.5–287

Aerosol electricity instruments
- Megaw, W. J. et al., 21.8–214

Aerosol generators
- Tomaides, M., 21.12–266

Aerosol identification
- Knight, C. A., 21.6–109

Aerosol in Mars atmosphere
- Ianovitskiĭ, E. G., 21.12–5R
- Sytinskaia, N. N., 21.11–28R

Aerosol light scattering
- Charlson, R. J., 21.12–495
- Stetter, G., 21.12–212

Aerosol measurement
- Ivanov, A. I., 21.9–44R
- Winkler, P., 21.6–190

Aerosol measurement techniques
- Blifford, I. H., Jr. et al., 21.1–566
- Charlson, R. J. et al., 21.9–87
- Shifrin, K. S. et al., 21.9–76
- Tuma, J., 21.12–115
- U. S. Air Force. Office of Aerospace Research, Research Review, 21.11–162

Aerosol measurements
- Hanel, G., 21.5–26

Aerosol mobility
- Kalazhokov, Kh. Kh., 21.11–161
- Nakatani, S., 21.9–286
- Voloshchuk, V. M., 21.3–337

Aerosol observation techniques
- Reagan, J. A., 21.9–29

Aerosol observations
- Beliaev, S. P., 21.3–329

Aerosol particle distribution
- Voloshchuk, V. M., 21.5–302

Aerosol particle growth
- Kasten, F., 21.5–675
- Winkler, P., 21.6–190

Aerosol particles
- Rosinski, J. et al., 21.1–567
- Stein, F. et al., 21.5–288

Aerosol particles at high altitude
- Dietze, G., 21.10–487

Aerosol physics
- Gussman, R. A., 21.6–174
- McGreevy, G., 21.10–365
- Sartor, J. D., 21.12–529

Aerosol precipitation
- Vonnegut, B., 21.3–688

Aerosol production
- Billard, F., 21.12–511
- Bricard, J., 21.12–235
- Sinclair, D., 21.12–259
- Starkova, B., 21.12–521
- Swift, D. L., 21.12–508

Aerosol removal
- Sood, S. K., 21.12–536
- Voloshchuk, V. M., 21.12–269

Aerosol research
- Whitby, K. T., 21.12–273

Aerosol samplers
- Aksenov, M. Ia., 21.6–103
- Goldschmidt, V. W. et al., 21.7–61
- Hänel, G., 21.12–107
- Kopylov, V. P. et al., 21.3–214
- Noll, K. E., 21.12–110
- Solon, L. R., 21.1–205

Aerosol sampling and analysis
- Benarie, M. et al., 21.7–58
- Schreiber, H. et al., 21.5–282
- Zier, M., 21.6–112

Aerosol sampling techniques
- Donnell, H., 21.12–111

Aerosol scattering coefficients
- Shifrin, K. S. et al., 21.8–147

Aerosol size distribution
- Abel, N. et al., 21.7–127
- Beliaev, S. P. et al., 21.3–213
- Blifford, I. H., Jr. et al., 21.1–566
- Brown, P. M., 21.7–59
- Foitzik, L. et al., 21.10–140
- Heard, M. J. et al., 21.5–254
- McCaldin, R. O. et al., 21.5–269, –270
- Mészáros, A., 21.12–247
- Mészáros, E., 21.5–272
- Murai, K., 21.6–372
- Peterson, C. M. et al., 21.5–279
- Reiter, R., 21.12–519
- Rich, T. A., 21.12–520
- Sarkisov, S. L., 21.11–373
- Sinclair, D., 21.12–259
- Stein, F. et al., 21.5–288
- Toropova, T. P., 21.5–292
- Whitby, K. T., 21.12–273

Aerosol size distribution determination
- Shifrin, K. S. et al., 21.8–147

Aerosol size distribution measurement techniques
- Sinclair, D., 21.12–259

Aerosol size distribution measurements
- Hänel, G., 21.12–107
- Harris, F. S., Jr., 21.12–108

Junod, A., 21.12–242
Maze, R., 21.12–98
Aerosol size spectrometers
Facilities for Atmospheric Research [Boulder, Colo.], 21.5–277
Aerosol size spectrum
Friedlander, S. K., 21.12–238
Aerosol size spectrum calculations
Junod, A., 21.12–242
Aerosol temperatures
Hess, B. et al., 21.5–579
Aerosol turbulent diffusion
Luma, R. E., 21.1–493
Aerosol vertical distribution
Bunakova, A. M., 21.10–11R
Meszaros, A., 21.12–247
Naito, K. et al., 21.3–92
Aerosols
International Symposium on Atmospheric Trace Constituents and Atmospheric Circulation, Heidelberg, 1969, 21.10–137
Aerospace meteorology conferences
National Conference on Aerospace Meteorology, 4th, Las Vegas, Nev., May 4–7, 1969, 21.10–9
Aerospace research
U. S. Air Force. Office of Aerospace Research, 21.10–55R
Aerosynoptic processes of mud flows
Zakhashvili, M. A., 21.11–121
Afforestation
Gindel, 21.4–341
AgI–Alkali iodide complexes
Burkardt, L. A., 21.11–370
Agricultural bioclimatology
Vylegzhanina, G. F., 21.2–398
Agricultural cultivation methods
Fedoseev, A. P., 21.1–51
Agricultural development
Amin, M. A., 21.11–545
Agricultural drought days
Rickard, D. S. et al., 21.5–655
Agricultural hydrology
Koronkevich, N. I., 21.11–421
Agricultural influences on river runoff
Nazarov, G. V., 21.11–432
Agricultural influences on runoff
Grin, A. M., 21.11–424
Koronkevich, N. I., 21.12–549
Agricultural irrigation
Liu, Fong Yih, 21.10–558
Ozal, K. et al., 21.7–791
Agricultural meteorology
Brown, K. W., 21.4–231
Agricultural observations
Page, T., 21.5–38
Agricultural research
Adelaide, South Australia, 21.3–701
Agriculture land price–climate effects
Johnson, S. R., 21.12–573
Agriculture–runoff influences
Frink, C. R., 21.4–576
Agroclimatic conditions
Fukui, E., 21.8–540
Landers, H., 21.2–292
Müller, W., 21.9–390
Agroclimatic data processing
Novikov, A. G., 21.6–145; 21.8–554
Agroclimatic regions
Gol'tsberg, I. A., 21.8–542
Agroclimatological atlases
Texas. Agricultural Experiment Station, College Station, 21.6–599
Agroclimatological conferences
Proceedings of the Reading Symposium, Univ. of Reading, Paris, 1966, 21.2–315
Agroclimatological investigations
Cochemé, J., 21.2–316
Agroclimatological research
Gol'tsberg, I. A., 21.9–36R
Agroclimatological surveys
Cocheme, J., 21.11–5
Agroclimatological techniques
Dmitrenko, V. P., 21.2–319
Agroclimatology
Wardle, P. A., 21.8–686
Agroclimatology, Argentine
De Fina, A. L., 21.10–118R
Agroclimatology–overgrazing relationships
Campbel, I. A., 21.11–446
Agrometeorological conditions
Kulik, M. S., 21.11–472
Smirnova, S. I., 21.6–660
Yao, A. Y. M., 21.5–621
Agrometeorological conditions for jute
Ortolani, A. A., 21.11–474
Agrometeorological conditions for potato cultivation
Tauberbiller, E. A., 21.1–54
Agrometeorological conditions for winter wheat
Miha, I. et al., 21.9–387
Agrometeorological conferences
World Meteorological Organization, WMO Bulletin, 21.1–32
Agrometeorological data
Lawes, E. F., 21.10–46
Rumania. Institutul Meteorologic, Bucharest, 21.6–51
Agrometeorological forecasting
Fedoseev, A. P., 21.12–166
Grushka, I. G., 21.12–159
Novikov, A. G., 21.6–145
Pasov, V. M., 21.12–168
Sirotenko, O. D., 21.9–103
Agrometeorological forecasting services
Orel, V., 21.6–128
Agrometeorological forecasting techniques
Ponomarev, B. P. et al., 21.6–146

Agrometeorological observations
  Vershinin, A. P. et al., 21.5–435
Agrometeorological research
  Kulik, M. S., 21.12–15
Agrometeorological research in the U.A.R.
  Gidamy, M. H., 21.11–9
Agrometeorological services
  Federal–State Agricultural Weather Service, Lakeland, Fla., 21.2–1
  Skoda, G., 21.3–28
Agrometeorological stations
  Gidamy, M. H., 21.11–9
Agrometeorological studies
  Dmitrenko, V. P., 21.12–7
  Gorbunova, I. G. et al., 21.10–555
  Pătăchie, Iu., 21.7–693
Agrometeorological symposia
  Hogg, W. H., 21.5–11
Agrometeorology
  Gerber, J. F., 21.8–350
  Hogg, W. H., 21.8–680
  Ige, G. A., 21.11–10
  Israel. Meteorological Service, 21.11–11
  Ivanova-Zubkova, N. Z., 21.9–384
  Konstantinov, A. R., 21.1–554
  Mäde, A., 21.10–6
  Prejml, K., 21.4–347
  Rosenberg, N. J., 21.2–3
  Smith, C. V., 21.8–670
  Socor, E. et al., 21.9–397, –398
  Stansfield, J. M., 21.8–675
  Taggart, W. J., 21.8–672
  Taylor, J. A. (ed.), 21.8–673
  Tsertsvadze, Sh. I. et al., 21.2–328
  Tyrrell, J. G., 21.8–683
  Vlasora, V. A., 21.9–402
Agrometeorology, Agroclimatology in Africa
  Gornung, M. B., 21.12–10
Agrometeorology, bibliography
  Germany (Federal Republic). Deutscher Wetterdienst, 21.9–129R
Agrometeorology history in East Germany
  Mäde, A., 21.10–6
Agrometeorology yearbooks
  Rumania. Institutul Meteorologic, Bucharest, 21.6–51
Air circulation–sea variations relationships
  Shpaikher, A. O. et al., 21.4–743
Air conditioning meteorology
  Dalu, G., 21.8–136
  Doniaux, R., 21.3–681
Air density
  King-Hele, D. G. et al., 21.3–312
  Salah, J. E., 21.3–315
Air density measurements
  Kostko, O. K., 21.12–34
  McAllister, L. G., 21.11–30
  Tank, W. G. et al., 21.3–60
Air density profiles
  Faust, H., 21.3–311
Air density studies
  King-Hele, D. G. et al., 21.3–313
Air density variations
  Cook, G. E., 21.12–205
Air ionization
  Dalu, G., 21.8–136
  Gibson, J. A. B. et al., 21.4–79
Air–lake temperature relationships
  Anderson, D. V., 21.6–272
Air mass classification
  Weedfall, R. O., 21.11–277
Air mass climatology
  Oliver, J. E., 21.10–472
  Warakomski, W., 21.7–312
Air mass frequencies
  Warakomski, W., 21.7–312
Air mass modification
  Desai, B. N., 21.2–106
Air mass movements
  Taljaard, J. J., 21.3–489
Air mass thunderstorms
  Owens, J. J., Jr., 21.1–412
Air mass transformation
  Balueva, A. S. et al., 21.3–487
  Chuprin, S. F., 21.1–415
Air mass transport
  Sorokina, V. N., 21.11–279
Air mass types
  Warakomski, W., 21.7–312
Air pollution
  Cobb, W. E., 21.11–506
  East, C., 21.12–24R
  Nature [London], 21.11–80R
  Thom, N. G., 21.11–165
Air pollution, bibliography
  Pennsylvania. State Univ., 21.9–138R
Air pollution control
  Kohn, R. E., 21.8–139
Air pollution control models application
  Kohn, R. E., 21.8–139
Air pollution in Auckland, N. Z., area
  Thom, N. G., 21.11–165
Air pollution of buildings
  Fel'dman, Iu. G. et al., 21.7–141
Air pollution–plant effects
  De Cormis, L. et al., 21.7–140
Air quality criteria symposia
  Environmental Science and Technology [Wash., D. C.], 21.5–233
Air–road temperature relationships
  Parrey, G. E., 21.11–327
Air route climatology
  Wehner, H., 21.6–662
Air sampling and analysis
  Charlson, R. J., 21.6–107
  Chow, T. J. et al., 21.5–240
  Wartburg, A. F. et al., 21.7–64
Air sampling instruments
  Miles, J. W., 21.11–102
Air–sea boundary processes
  Pandolfo, J. P., 21.4–702
Air–sea carbon dioxide exchange
  Fairhall, A. W. et al., 21.4–676

Air–sea exchange coefficient
  Preobrazhenskiĭ, L. Iu., 21.4–206
Air–sea heat exchange
  Takahashi, T., 21.4–160
Air–sea interaction
  Garrett, W. D., 21.7–850
  Miller, F. et al., 21.4–2, –3
  Monin, A. S., 21.7–4
  Zilitinkevich, S. S., 21.7–268
Air–sea interface
  Garrett, W. D., 21.7–850
Air–sea temperature determination
  Andreev, E. G. et al., 21.6–423
Air–sea temperature difference
  Andreev, E. G. et al., 21.6–423
Air–sea temperature relationships
  Filippov, V. V. et al., 21.2–174
  Kryndin, A. N. et al., 21.2–210
  Prosekina, G. M. et al., 21.9–245
  Shpalkher, A. O. et al., 21.2–214
Air–sea temperatures
  Arnold, J. E., 21.4–156
  Loewe, F., 21.4–182
  Malevskiĭ-Malevich, S. P., 21.3–571
Air showers
  Allan, H. R., 21.3–533
Air–soil ammonia exchange
  Hanawalt, R. B., 21.4–396
Air–soil temperature relationships
  Basu, A. N., 21.7–454
  Donciu, C. et al., 21.3–564
  Gol'tsberg, I. A., 21.8–542
  Klapowa, M., 21.5–487
  Lee, C. B., 21.9–242
Air temperature at Lomnicky
  Petrovič, Š., 21.10–307
Air temperature forecasting predictors
  Mdinaradze, D. A., 21.11–115
Air temperature forecasts
  Mdinaradze, D. A., 21.11–115
Air temperature in Transcaucasia
  Mepistsveridze, E. I., 21.10–309
Air temperature snow-settling relationship
  Rey, L., 21.10–403
Air trajectory studies
  Ahrens, D., 21.11–334
Air–water surface temperatures
  O'Brien, E. E. et al., 21.3–569
Airborne cloud drop sampler
  Yamashita, A., 21.5–132
Airborne humidity instruments
  Ostlund, H. G. et al., 21.5–50
Airborne laser radar
  Melfi, S. H. et al., 21.7–40
Airborne precipitation collector
  Ward, J. H. et al., 21.1–190
Airborne radar equipment
  Wilk, K. E. et al., 21.2–102
Airborne radiation measurements
  Witte, H. J., 21.1–453
Airborne raindrop samplers
  Schecter, R. M. et al., 21.6–88
Airborne temperature recorders
  Beliaev, V. P., 21.5–113
Airborne turbulence instruments
  Nathan, N. H. et al., 21.3–136
Airborne weather radar
  Glover, K. M., 21.3–79
  Merritt, L. P., 21.3–89; 21.6–100
Aircraft actinometric measurements
  Malevskiĭ-Malevich, S. P., 21.6–58
Aircraft altitude effects
  Sandie, W. G. et al., 21.7–344
Aircraft aurora observatio
  Buchau, J. et al., 21.10–50
Aircraft cloud observatio
  Tebo, A. R., 21.6–588
Aircraft cloud particles measurements
  Vasilevskiĭ, L. S. et al., 21.5–54
Aircraft cloud seeding
  Rhea, J. O., 21.11–148
  Simpson, J., 21.1–271
Aircraft engine exhaust
  U. S. Dept. of Health, Education and Welfare, 21.5–296
Aircraft engine exhaust emission
  George, R. E. et al., 21.8–138
  Sawyer, R. F., 21.10–144
Aircraft icing
  Weiss, I., 21.6–574
Aircraft instrumentation
  Berry, E. X. et al., 21.4–17
  MacPherson, J. I., 21.12–62
Aircraft ionospheric observations
  Gassmann, G. J., 21.11–186
Aircraft measurements
  Georgiĭ, H. W. et al., 21.3–348
Aircraft meteorological observations
  Machta, L. et al., 21.5–82
Aircraft meteorological research
  Friedman, H. A. et al., 21.9–42
Aircraft meteorological soundings
  Berry, E. X. et al., 21.4–17
Aircraft night airglow observations
  Huppi, E. R., 21.7–354
Aircraft observation of atmospheric electricity
  Schuman, E. L., 21.5–678
Aircraft observation of turbulence
  Buldovskiĭ, G. S., 21.7–471
  Prophet, D. T., 21.12–473

Aircraft observations of albedo
Korobev, M. G. et al., 21.1–444
Aircraft operating problems
Carten, A. S., Jr., 21.10–133
Aircraft radioactive fallout measurements
Fischer, H. F., 21.6–259
Aircraft solar radiation observations
Eddy, J. A. et al., 21.3–510
Aircraft sounding in clouds
Byers, H. R., 21.1–582
Aircraft soundings
Duchon, C. E., 21.11–65
Hobbs, P. V. et al., 21.9–202
Aircraft turbulence observations
Chernikov, A. A. et al., 21.10–323
MacPherson, J. I., 21.11–66; 21.12–62
Roach, W. T., 21.1–486
Aircraft wake turbulence
Carten, A. S., Jr., 21.10–133
Aircraft weather reconnaissance
Spar, J. et al., 21.6–325
U. S. Air Force. Shaw A.F.B., S.C., 21.7–579
Uverhy, R. C., 21.3–137
Aircraft weather reports
Rohan, P. K., 21.12–63
Aircraft wind observations
Axford, D. N., 21.1–527
Airflow
Zimmerman, L. I., 21.4–89
Airflow in forests
Meroney, R. N., 21.11–239
Airflow measurement techniques
Jessup, E. A., 21.1–143
Airflow models
Kawatani, T., 21.12–357
Taylor, P. A., 21.12–360
Volkovitskiĭ, O. A. et al., 21.3–419
Airflow over a heated island
Spelman, M. J., 21.10–331
Airflow over heated land
Estoque, M. A. et al., 21.1–355
Nagatani, R. M., 21.5–374
Airflow over hills
Scorer, R. S., 21.10–351
Airflow over islands
Weather [London], 21.7–513
Airflow over mountains
Arakawa, S. et al., 21.5–535
Kasahara, A. et al., 21.6–528
Magata, M., 21.5–541; 21.7–517
Nagatani, R. M., 21.5–374
Onishi, G., 21.6–530
Airflow over obstacles
De Félice, P., 21.10–350
Gelci, R. et al., 21.6–276
Kurz, M., 21.6–529
Lacaze, J., 21.5–539
Pao, Y. H., 21.1–361
Wilkins, E. M., 21.7–518
Airflow patterns
Vorontsov, P. A., 21.9–96R
Airglow intensities
Shefov, N. N., 21.6–392
Torr, M. R. et al., 21.8–254
Airglow intensity variations
Evans, W. F. J. et al., 21.5–457
Airglow line emission
O'Neil, R., 21.1–468
Airglow networks
International Association of Geomagnetism and Aeronomy, 21.10–36
Airglow physics
Green, A. E. S., 21.7–330
Airglow research
Akademiia Nauk SSSR. Mezhduvedomstvennyĭ Geofizicheskiĭ Komitet, 21.12–1R
O'Neil, R., 21.1–468
Airglow symposia
NATO Advanced Study Institute, Agricultural College of Norway, As, Norway, July 29–Aug. 9, 1968, 21.7–358
Airglow temperatures
Shepherd, G. G., 21.7–450
Airplane humidity observations
Ruskin, R. E., 21.1–189
Airplane hygrometers
Ruskin, R. E., 21.1–189
Airplane observation of sea waves
Nordberg, W. et al., 21.2–385
Airplane observation of solar radiation
Thekaekara, M. P. et al., 21.5–444
Airplane turbulence observations
Jayaraman, S., 21.7–475
Spillane, K. T., 21.6–481
Airport anemometry
Rijkoort, P. J., 21.12–466
Airport climatic data
Ito, H., 21.12–560
U. S. Air Weather Service, 21.5–660
Airport forecasting
Von Bezold, W., 21.1–244
Airport runway temperatures
Sternzat, M. S., 21.8–312
Airport terminal forecasts
Entrekin, H. D. et al., 21.3–288
Airport turbulence
Vasil'ev, A. A. et al., 21.9–254
Airport visibility
Lamp, R., 21.8–363
Minafra, N. et al., 21.2–342
Airport visibility forecasting
Nomoto, S., 21.3–262
Aitken counter
Carnuth, W., 21.10–86
Aitken nuclei
Beilke, S., 21.5–217
Megaw, W. J., 21.8–357
Reiter, R., 21.12–519
Albedo effects on diffuse radiation
Shifrin, K. S., 21.11–25R
Albedo effects on evapotranspiration
Seginer, I., 21.5–568

Albedo instruments
Siachinov, V. I. et al., 21.1–177
Albedo investigations
Salomonson, V. V., 21.6–367
Albedo ionosphere effects
Gassmann, G. J., 21.11–186
Albedo measurement from satellite
Shifrin, K. S., 21.11–20R
Albedo measurements
Bendelow, V. C., 21.7–325
McGovern, W. E. et al., 21.6–363
Steinhauser, F., 21.12–263
Albedo measurements by satellite
Malkevich, M. S. et al., 21.6–364
Raschke, E. et al., 21.6–365, –366
Albedo of a planetary atmosphere
Kolesov, A. K., 21.12–592
Albedo of clouds
Goisa, N. I. et al., 21.10–270
Plummer, W. T., 21.8–742
Raschke, E. et al., 21.6–366
Albedo of crops
Davies, J. A. et al., 21.6–354
Idso, S. B. et al., 21.7–324
Albedo of Earth's atmosphere
Raschke, E. et al., 21.6–366
Albedo of Earth's surface
Goïsa, N. I. et al., 21.10–270
Raschke, E. et al., 21.6–366
Albedo of ice
Bezverkhniĭ, Sh. A., 21.12–413
Briazgin, N. N. et al., 21.6–361
Langleben, M. P., 21.5–445
Albedo of Jupiter
Anderson, R. C., 21.5–706
Jenkins, E. B., 21.11–576
Albedo of Mars
Davydov, V. D., 21.9–513
Albedo of Moon
Wildey, R. L. et al., 21.9–490
Albedo of planets
Sobolev, V. V., 21.8–731
Uesugi, A. et al., 21.4–485
Albedo of reservoirs
Kirillova, T. V., 21.2–121
Albedo of sea
Kolomiitsov, V. Iu., 21.11–15R
Shifrin, K. S., 21.11–24R
Albedo of snow
Briazgin, N. N. et al., 21.6–361
Slaughter, C. W., 21.6–368
Albedo of Venus
Anderson, R. C., 21.5–706
Chamberlain, J. W., 21.11–573
Jenkins, E. B., 21.11–576
Albedo profiles
Goïsa, N. I. et al., 21.10–270
Alcohol thermometers
Ukhanova, E. A., 21.9–57
Aldabra ecology
Stoddart, D. R., 21.3–762
Alfalfa cultivation
Tovey, R., 21.8–497
Alfalfa harvesting
Derbyshire, J. C. et al., 21.8–682
Alfvén waves
Gilman, P. A., 21.5–397
Algonquin Radio Observatory
Covington, A. E., 21.8–716
Algorithms
King, J. I. F., 21.6–67
Nazarova, I. V., 21.11–401
Alkali soils
Hrasko, J., 21.3–705
Alkalinity measurement techniques
Kunkler, J. L., 21.10–695
Alkalinity of seawater
Culberson, C. et al., 21.10–801
Alluvial aquifers
Boswell, E. H. et al., 21.5–754
All-weather operations symposia
International Civil Aviation Organization, 21.5–12
Alpine climates
Deschwanden, J. S. von et al., 21.8–538
Hochli, M., 21.8–544
Reiter, R., 21.7–685
Zuidema, P., 21.8–561
Alpine meteorological conferences
Loup, J., 21.1–70
Altimetry techniques
Kolker, M. et al., 21.2–22
Altitude effects on man
Holmstrom, F. M. G., 21.8–546
Jokl, E. et al., 21.10–461
Luft, U. C., 21.2–313
Altitude effects on vegetation
Johnson, M., 21.2–323
Altitude forecasting, 300 mb
Vondráčková, H., 21.7–82
Altitude influences
Domros, M., 21.4–313
Altitude–precipitation effects
Glazyrin, G. E., 21.11–39
Altitude–radiation effects
Reiter, R., 21.7–323
Altitude–rainfall effects
Smithson, P. A., 21.8–420
Altitude–temperature effects
Lee, R., 21.4–157
Aluminum in natural waters
Roberson, C. E. et al., 21.3–741
Amateur weather stations
Thomas, C. G., 21.5–62
Ambient air
Iglauer, E., 21.1–274
American Arctic
Canada. Meteorological Branch, 21.2–627
American Meteorological Society, History
American Meteorological Society, 21.12–2
Ammonia in fresh water
Solorzano, L., 21.9–701
Ammonia in Jupiter atmosphere
Moroz, V. I. et al., 21.7–761
Ammonia in ocean water
Solorzano, L., 21.9–701
Ammonia lines in Jupiter spectrum
Gille, J. C. et al., 21.6–707

Giver, L. P. et al., 21.6–708
Analog computers
Finn, D. L., 21.3–585
Analog forecasting
Katin, Iu. E., 21.12–165
Kukhto, A. P., 21.12–164
Lecce, B. A., 21.1–240
Lorenz, E. N., 21.1–247
Analog methods
Lipmanovich, Ia. R., 21.1–243
Analog selection
Bagrov, N. A., 21.12–162
Kukhto, A. P., 21.12–164
Lorenz, E. N., 21.1–247
Analogs
Soldatkina, A. M., 21.1–234
Anemoclinometers
Tanner, C. B. et al., 21.3–197
Anemometer accuracy
Laferty, J. D. et al., 21.8–63
Anemometer calibration
Altai, N. N., 21.8–62
Brunelle, P. E. et al., 21.10–76
Fateev, N. P. et al., 21.8–58
Laferty, J. D. et al., 21.8–63
Anemometer comparisons
Bergen, J. D., 21.6–81
Businger, J. A. et al., 21.5–121
Anemometer errors
Protopopov, N. G., 21.9–63
Surazhskiĭ, D. Ia. et al., 21.3–194
Anemometer measurements
Smith, S. D. et al., 21.2–733
Anemometer system
Thurtell, G. W., 21.11–90
Anemometer testing
Bokhanov, V. E., 21.9–62
McNally, G. J., 21.11–92
Anemometers
Bernstein, T. et al., 21.6–79
Davis, M. R., 21.11–91
Herbert, G. A. et al., 21.1–536
Sakunov, G. G., 21.11–94
Anemorhumbometers
Torochkov, V. Iu., 21.5–125
Aneroid barometer accuracy
Okada, Y., 21.3–190
Aneroid barometers
Flogl, H., 21.12–92
Anesthesia–climate relationships
Krahenmann, J. A., 21.11–471
Angular momentum flux
Murray, R. et al., 21.1–393
Angular momentum transfer
Henning, D., 21.3–441
Macdonald, N. J. et al., 21.10–238
Animal bioclimatology
Berman, A., 21.11–465
Dawson, T. J., 21.12–567
Krahenmann, J. A., 21.11–471
Animal body heat regulation
Berman, A., 21.11–465
Animal climates
Gates, D. M., 21.10–459
Animal ecology
Porter, W. P., 21.6–658
Animal–temperature effects
Berman, A., 21.11–465
Anisotropic scattering
Salomonson, V. V., 21.6–367
Sobolev, V. V., 21.8–574
Anisotropic turbulence
Borkowski, J., 21.10–225
Kaimal, J. C., 21.10–228
Annotated bibliographies
International Association of Scientific Hydrology, 21.1–48
Grimes, A. E., 21.2–295
Signor, D. C. et al., 21.9–643
Annual CSIRO reports
Australia. Commonwealth Scientific and Industrial Research Org., Div. of Meteorological Physics, 21.1–36
Annual circulation variations
Putnins, P., 21.6–301
Sharov, V., 21.3–437
Annual climatological summaries
Sneyers, R. et al., 21.5–68
Annual cosmic ray variations
Dorman, L. I. et al., 21.10–294
Annual floods
White, E. L. et al., 21.10–420
Annual fog variations
Lamp, R., 21.8–363
Annual groundwater report
Arizona. Land Dept., 21.4–533
Annual hydrological reports
California. University, 21.8–771
Great Britain. Hydrographic Dept., 21.2–647, –659
Annual meteorological data
British Antarctic Meteorological Service, 21.8–34
East African Community, Nairobi, 21.3–105
Netherlands, 21.8–33
Portugal. Serviço Meteorológico Nacional, 21.3–110
Annual meteorological data summaries
Congo (Republique Democratique du Congo), 21.9–36
Finland. Meteorologiska Centralanstalten, 21.1–131
Macerata, Italy. Osservatorio Meteorologico, 21.1–134
Milan. Osservatorio Astronomico di Brera, 21.1–135
Singapore. Meteorological Service, 21.1–136
Annual meteorological reports
Australia. Commonwealth Scientific and Industrial Research Organization, 21.3–4
Great Britain. Meteorological Office. Marine Div., 21.12–11

International Meteorological Institute, Stockholm, 21.8–4
Italy. Istituto di Fisica dell' Atmosfera, 21.5–13
Mauritius. Meteorological Dept., 21.1–41
U. S. Army Electronics Command. Atmospheric Sciences Office, White Sands Missile Range, N.M., 21.3–31

Annual oceanographic reports
California. Univ., San Diego. Inst. of Marine Resources, 21.4–628
Italy, 21.7–830
Kiel. Univ., 21.1–714

Annual precipitation variability
Gushlia, A. V., 21.5–623

Annual precipitation variations
Rodríguez-Iturbe, I. et al., 21.9–313

Annual pressure variations
Karklin, V. P. et al., 21.3–580

Annual radiation balances
Lingova, St., 21.3–499

Annual rainfall maps
Senior, M. R., 21.5–622

Annual rainfall variations
Senior, M. R., 21.5–622

Annual reports
Australia. Commonwealth Scientific and Industrial Research Organization, 21.2–49
Gt. Brit. Meteorological Office. Marine Div., 21.1–39
Kodaikanal, India. Observatory, 21.8–711
Toronto. Univ., Great Lakes Inst., 21.2–614
U. S. Air Force. Cambridge Res. Labs., 21.2–5
U. S. Forest Service, 21.5–685
U. S. National Environmental Satellite Center, 21.1–157
U. S. Office of Saline Water, 21.2–713

Annual river flow
Rodríguez-Iturbe, I., 21.7–807

Annual sporadic E-layer variations
Bencze, P., 21.6–218

Annual streamflow variations
Rodríguez-Iturbe, I. et al., 21.9–313
Shveikin, Iu. V. et al., 21.4–584

Annual temperature
Brodeau, M. et al., 21.10–310

Annual typhoon reports
U. S. Fleet Weather Central/Joint Typhoon Warning Center, Guam, 21.10–249

Annual variations
Katô, H., 21.7–669

Annual weather data
Roller, M., 21.3–116

Annual weather summaries
Hisdal, V., 21.1–133
Wallen, C. C., 21.5–69; 21.7–35

Anomalous frosts
Frost, R., 21.5–189

Antarctic atmospheric optics
Bugaev, Iu. G., 21.12–318

Antarctic auroras
Akasofu, S. I., 21.10–529
Kaminuma, K. et al., 21.9–445

Antarctic bibliographies
Antarctic bibliography, Wash., D. C., 21.1–46; 21.10–62R

Antarctic bioclimatology
Matusov, A. L., 21.7–690
Titkhomirov, I. I., 21.10–469

Antarctic circulation
Gibson, T. T. et al., 21.7–271
Lambert, G., 21.12–327
Zakhariev, V., 21.7–267

Antarctic circumpolar current
Gill, A. E., 21.4–730

Antarctic climate
Aver'ianov, V. G., 21.3–678
Simonov, I. M., 21.4–315
Zakhariev, V., 21.7–267

Antarctic climatic data
Belov, V. F. et al., 21.
493
Chesneau, J. et al., 21.
370

Antarctic climatology
Dabberdt, W. F., 21.1
559

Antarctic cosmic ray investigations
Ishida, Y. et al., 21.8–305
Pomerantz, M. A., 21.
418

Antarctic cyclogenesis
Gibson, T. T. et al., 21.
271

Antarctic expedition
Expedition Antarctiq
Belgo–Néerlandaise, 1965, 21.3–120

Antarctic expeditions
Cameron, R. L. et a
21.1–140

Antarctic exploration
U. S. Naval Suppo
Force, Antarctica, 21.
40

Antarctic glaciological studies
Fedorov, B. A., 21.8–800
Kruchinin, Iu. A., 21.8–44
McLaren, W. A., 21.1–76

Antarctic ice
Glade, P., 21.11–80
Suetova, I. A., 21.4–610

Antarctic ice cap mass budget
Burdecki, F., 21.3–753

Antarctic ice sheet
Benson, C. S., 21.8–438
Crozaz, G., 21.2–621
Schwerdtfeger, W., 21.
611

Antarctic icebergs
Botnikov, V. N., 21.12–72

Antarctic ionosphere
Davies, K. et al., 21.5–34
Duncan, R. A., 21.9–155
Reid, G. C. et al., 21.5–35
Stuart, G. F., 21.3–379
Titheridge, J. E., 21.1–67

Antarctic meteorological data
Australian National Ant

arctic Research Expeditions, 21.5–73
British Antarctic Meteorological Service, 21.8–34
Japan. Meteorological Agency, Tokyo, 21.4–13
Antarctic meteorological summaries
Cameron, R. L. et al., 21.1–140
South Africa. Weather Bureau, 21.5–78
Voskresenskiĭ, A. I., 21.8–42, –43
Antarctic meteorology
U. S. Naval Support Force, Antarctica, 21.9–40
Antarctic meteorology research
Roberts, C. L., Jr., 21.5–76
Antarctic micrometeorology
Frostman, T. O., 21.4–330
Antarctic noctilucent clouds
Kreem, E. I., 21.8–583
Antarctic oases
Simonov, I. M., 21.4–315
Zakharov, V. F., 21.9–661
Antarctic Ocean circulation
Grigor'ev, Iu. A., 21.4–693
Treshnikov, A. F., 21.12–14R
Antarctic Ocean currents
Bolgurtsev, B. N. et al., 21.4–714
Grigor'ev, Iu. A., 21.4–693
Antarctic oceanic frontal zones
Bogdanov, M. A., 21.9–711
Antarctic oceanographic data
Chikovskiĭ, S. S., 21.8–815
Grigor'ev, Iu. A., 21.8–817
Watanabe, R. et al., 21.6–829
Antarctic oceanographic expeditions
Capurro, L. R. A., 21.4–642
Hufford, G. L. et al., 21.4–644
Antarctic oceanographic investigations
Botnikov, V. N., 21.12–740
Chikovskiĭ, S. S., 21.8–815
Grigor'ev, Iu. A., 21.8–817
Hoshiai, T., 21.12–775
Antarctic ozone observations
Wisse, J. A. et al., 21.3–328
Antarctic plant life
Gannutz, T. P., 21.10–455
Antarctic pressures
Diubkin, I. A., 21.11–314
Antarctic radiation data
Expedition Antarctique 1964, 21.2–115
Expedition Antarctique Néerlandaise, 1965, 21.3–120
Antarctic radiation regime
Belov, V. F. et al., 21.3–493
Antarctic research
National Research Council, Wash., D. C. Committee on Polar Research, 21.10–50
Polar Record [Cambridge, Eng.], 21.2–684
Treshnikov, A. F., 21.5–22
Antarctic sea ice
Baranov, G. I. et al., 21.4–620
Botnikov, V. N., 21.12–729
Eskin, L. I., 21.4–621; 21.8–808
Evseev, V. V., 21.8–809
Johnson, J. D., 21.4–613
Knapp, W. W., 21.4–622
Petrov, I. G. et al., 21.8–810
Antarctic shore ice
Botnikov, V. N., 21.12–729
Evseev, V. V., 21.8–809
Petrov, I. G. et al., 21.8–810
Antarctic snow
Peterle, T. J., 21.8–384
Antarctic snow cover
Aver'innov, V. G., 21.11–396
Chikovskiĭ, S. S., 21.11–397
Ivanov, V. B., 21.6–618
Kruchinin, Iu. A., 21.8–445
Weller, G., 21.8–449
Antarctic soils
Porter, S. C., 21.5–17
Antarctic stratospheric warming
Phillpot, H. R., 21.2–202
Wisse, J. A. et al., 21.3–328
Antarctic synoptic processes
Kuznetsov, A. V. et al., 21.3–447
Serlapov, S. T., 21.3–449
Antarctic temperature anomalies
Thompson, D. C., 21.2–190
Antarctic temperatures
Diubkin, I. A., 21.11–314
Skaib, G., 21.4–159
Antarctic topography
Suetova, I. A., 21.4–610
Antarctic tropopause
Aleksandrov, A. S., 21.4–49
Fedorov, Iu. K., 21.12–275
Antarctic upper air data
Voskresenskiĭ, A. I., 21.8–42, –43
Antarctic water mass analysis
Hufford, G. L. et al., 21.9–717
Antarctic weather patterns
Kuznetsov, A. V. et al., 21.3–447
Serlapov, S. T., 21.3–449
Antarctic winds
Dolganov, L. V., 21.3–614
Mather, K. B., 21.6–494
Skaib, G., 21.4–159
Streten, N. A., 21.1–513
Antarctica
Akademiia Nauk SSSR. Mezhduvedomstvennaia Komissiia po Izucheniiu Antarktiki, 21.11–41R
Stuart, G. F., 21.3–379
U. S. Board of Geographic Names, 21.10–111R
Antenna arrays
Kilpatrick, E. L., 21.11–546
Antenna design
Adams, J. E., 21.3–779
Antenna performance
Conference on Environ-

  mental Effects on Antenna Performance, Boulder, Colo., July 14–18, 1969, 21.5–686
  Kilpatrick, E. L., 21.11–546
Antenna response patterns
  Tseitlin, V. B., 21.4–426
Anticyclogenesis
  Burmistrova, V. D., 21.9–18R
Anticyclone analysis
  Neyama, Y., 21.3–486
Anticyclone circulation
  Makhover, Z. M., 21.10–32R
Anticyclone effects on atmospheric pollution
  Harada, H., 21.5–253
Anticyclone forecasting
  Evseev, M. P., 21.7–103
Anticyclone tracks
  Black, R. E., 21.11–264
Anticyclonic vorticity
  Pichler, H. et al., 21.6–327
Antimatter
  Bronshten, V. A. et al., 21.4–423
Antipodal radio wave propagation
  Gerson, N. C. et al., 21.7–733
Apiculture
  Gogorici, E. et al., 21.10–460
Apollo-11
  U. S. National Aeronautics and Space Administration, 21.9–487
Apollo project
  Ferguson, L. D. et al., 21.8–269
Apollo space flights
  Buhler, F., 21.8–261
  Whitehead, V. S. et al., 21.7–582
  Wildey, R. L. et al., 21.9–490
  Winter, T. C., Jr., 21.2–458
Apple phenology
  Hoffmann, K., 21.4–342
Applied astronautics
  American Astronautical Society, 21.7–738
Applied climatology methods
  Gandin, L. S., 21.11–447
Applied climatology research
  Zavarina, M. V., 21.9–97R
Applied hydrology
  Advances in Hydroscience, N.Y., 21.4–500
  Beckinsale, R. P., 21.1–798
  Kalinin, G. P., 21.12–683
Applied meteorology
  Advances in Geophysics, N.Y., 21.3–2
  Stringer, E. T., 21.8–671
Applied oceanography
  Gullion, E. A., 21.1–26
  National Security Industrial Association, 21.4–632
Aquatic vegetation
  Rzoska, J., 21.2–326
Aquifer experiments
  Le Saget, A., 21.11–705
Aquifer flow
  Brown, M. C. et al., 21.7–795
  Gulubov, M., 21.7–796
  Hazzaa, I. B. et al., 21.1–787
  Herrera, I., 21.12–689
  Javandel, I. et al., 21.4–559
  Kaufman, M. I. et al., 21.10–728
  Neuman, S. P. et al., 21.4–560, –561
  Norinelli, A., 21.9–646
  Pinder, G. F. et al., 21.4–563
  Sarvary, I., 21.1–788
  Vachaud, G., 21.1–785
  Venetis, C., 21.2–559
Aquifer flow calculations
  Verruijt, A., 21.1–792
Aquifer recharge
  Lenk, P., 21.9–644
Aquifer storage coefficient
  Ungemach, P., 21.1–786
Aquifer yield
  Jones, O. R. et al., 21.10–729
Aquifers
  De Breuck, W. et al., 21.10–725
  Gustafsson, Y., 21.4–571
  Norris, S. E. et al., 21.4–562
  Spasov, V., 21.1–790
Arcas–Robin rocket soundings
  Joplin, S. D., 21.12–29
Arch filament systems
  Bruzek, A., 21.12–638
Archeological investigations
  Blake, I., 21.7–671
Architectural climatology
  Griffiths, J. F., 21.1–47
Arctic air circulation
  Hare, F. K., 21.8–224
Arctic basin
  Arctic Institute of North America, Wash., D. C. 21.10–69R
Arctic bibliographies
  Arctic Institute of North America, Montre 21.9–1
Arctic climatic changes
  Vowinckel, E. et al., 21.5 367
Arctic climatology
  Gerdel, R. W., 21.11–447
  Shpaikher, A. O., 21.3–6
  Wilson, C., 21.6–642
Arctic cloudiness
  Huschke, R. E., 21.9–298
Arctic exploration
  Stanley, A., 21.2–682
Arctic fronts
  Gavrilova, L. A., 21.4–12
Arctic heat balance–atmospheric circulation relationships
  Volkoy, N. A. et al., 21.5 392
Arctic heat budget–atmospheric circulation relationships
  Chukanin, K. I., 21.4–99
Arctic heat economy
  Huschke, R. E. et a 21.5–400
Arctic humidity regime
  Zav'ialova, I. N., 21.4–1
Arctic Ice Deformatio Joint Experiment (AIDJEX)
  Untersteiner, N., 21.11–7
Arctic ice observation
  Siniurin, Iu. N., 21.4–6

Arctic ice research
  Untersteiner, N., 21.11–755
Arctic influences on general circulation
  Von Rudloff, H., 21.6–442
Arctic meteorological research
  Dolgin, I. M., 21.3–13
  Washington (State). Univ., Seattle, Dept. of Atmos. Sci., 21.9–12
Arctic meteorology
  Dolgin, I. M. et al., 21.3–12; 21.11–51R
Arctic microclimatology
  Corbet, P. S., 21.6–426
Arctic oceanographic research
  Coachman, L. K., 21.7–828
  Washington (State). Univ., Seattle, Dept. of Atmos. Sci., 21.9–12
Arctic oceanography
  Shpaikher, A. O., 21.3–677
Arctic radiation data
  Chernigovskiĭ, N. T., 21.2–108
Arctic radiation regime
  Chernigovskiĭ, N. T., 21.2–108
  Roulet, R. R., 21.12–410
Arctic research
  Hattersley-Smith, G., 21.5–74
  Montreal. Graduate School of Commerce, 21.11–44R
Arctic sea ice
  Gudkovich, Z. M., 21.9–40R
  Polar Record [Cambridge, Eng.], 21.2–635
  Untersteiner, N., 21.7–826
Arctic snow cover
  Ivanov, V. B., 21.6–618
Arctic stratosphere
  Hare, F. K., 21.8–224
Arctic synoptic climatology
  Vowinckel, E. et al., 21.5–367
Arctic synoptic meteorology
  Hare, F. K., 21.8–224
Arctic temperature inversions
  Corbet, P. S., 21.6–426
Arctic temperatures
  Von Rudloff, H., 21.6–442
  Zav'ialova, I. N., 21.4–165
Arctic weather stations
  Haggart, C., 21.9–25
Area–average determination
  Smirnova, S. I., 21.6–660
Area rainfall calculation
  Gzelnai, R., 21.10–25
Areal–point rainfall relationships
  Kisilenko, A. A., 21.6–602
Areal rain gage networks
  Huff, F. A. et al., 21.5–135
  Kisilenko, A. A., 21.5–138
Areal rain gage representativeness
  Huff, F. A., 21.6–91
Areal rain gages
  Hendrick, R. L., 21.12–100
Areal rainfall distribution
  Buzea, N., 21.7–596
Areal representativeness of rain gages
  Jackson, I. J., 21.5–617
Argon solubility in seawater
  Murray, C. N., 21.12–750
Arid lands
  Simons et al., 21.1–17
Arid zone agriculture
  Stevens, J. H., 21.6–682
  Walton, K., 21.6–652
Arid zone bioclimatology
  Tromp, S. W., 21.2–310
Arid zone climatology
  Armillas, P., 21.2–304
  Walton, K., 21.6–652
Arid zone hydrology
  Watkins, J. R., 21.8–784
Arid zone hydrometeorological conditions
  Watkins, J. R., 21.8–784
Arid zone irrigation
  Shanan, L., 21.4–394
Arid zone research
  Healy, J. R., 21.2–312
Arid zones research
  Sandy, G. H., 21.10–67R
Aridity index
  Galmarini, A. G. et al., 21.8–342
  Reitan, C., 21.2–286
Artesian water
  Gulubov, M., 21.7–796
Artificial auroras
  Hess, W. N., 21.2–373
  Stassinopoulos, E. G., 21.11–538
Artificial climate
  MacDonald, G. J., 21.3–559
Artificial climates
  Katayma, K., 21.6–655
Artificial cloud dispersal
  Hilsenrod, A., 21.12–183
  U. S. Air Force, Cambridge Res. Lab., Bedford, Mass., 21.1–263
Artificial fog
  Ferrara, R. et al., 21.1–570
Artificial fog dissipation
  Hilsenrod, A., 21.12–183
Artificial influences on ice melting
  Cavan, B. P., 21.11–754
Artificial ion clouds
  Haerendel, G. et al., 21.8–179
Artificial ionized clouds
  Miller, G. K., 21.12–31
Artificial lakes
  Ruggieri, M., 21.4–602
Artificial luminous clouds
  Andreeva, L. A. et al., 21.5–40
  Portniagin, Iu. I. et al., 21.5–39
Artificial noctilucent clouds
  Uvarov, D. B., 21.10–485
Artificial precipitation
  Dessens, H., 21.5–204
  Shishkin, N. S., 21.6–158
Artificial precipitation stimulation
  Bankövi, G. et al., 21.10–127
  California. Dept. of Water Resources, 21.5–201
  Chorley, R. J., 21.1–267
  Colorado. State Univ., Ft. Collins, Dept. of Atmos. Sci., 21.1–602
  Dzhuraev, A. D. et al., 21.9–112
  Gagin, A., 21.7–118
  Huff, F. A. et al., 21.5–205
  Kahan, A. M. et al., 21.1–268; 21.8–126
  Kornienko, E. E. et al., 21.7–121
  Kurbatkin, V. P., 21.9–109

  - Leonov, M. P. et al., 21.1–270
  - Nakamichi, H., 21.12–194
  - Neumann, J. et al., 21.8–127
  - Podgurskaia, V. N. et al., 21.1–120
  - Podzimek, J., 21.12–517
  - Schleusener, R. A., 21.12–197
  - Simpson, J., 21.12–199
  - U. S. Office of Atmospheric Water Resources, 21.8–129
  - Woodley, W. L., 21.8–131
- **Artificial radiation belts**
  - Farley, T. A., 21.3–528
- **Artificial radioactivity**
  - Van Cauwenberghe, A. R., 21.7–220
- **Artificial rain stimulation**
  - Adderley, E. E., 21.8–123
  - Dennis, A. S. et al., 21.8–124
  - Lovasich, J. L. et al., 21.7–123
  - Mason, B. J., 21.8–119
  - Squires, P., 21.8–128
  - White, B. J., 21.8–130
- **Artificial rainfall stimulation**
  - Lumb, A. M., 21.10–128
- **Artificial recharge of groundwater**
  - Behnke, J. J., 21.4–568
  - Frank, W. H., 21.9–642
  - Signor, D. C. et al., 21.9–643
  - Sopper, W. E., 21.8–693
  - Winqvist, G., 21.5–757
- **Artificial radiation effects on plants**
  - Lazarev, D. N. et al., 21.1–427
- **Artificial radioactivity**
  - Renoux, A. et al., 21.1–343
- **Artificial snow stimulation**
  - EG&G, Inc., Boulder, Colo., 21.9–113
  - Parungo, F. P., 21.11–147
  - Rhea, J. O., 21.11–148, –149
- **Aspiration psychrometers**
  - Alianchikova, G. N. et al., 21.5–127
  - Lourence, F. J. et al., 21.4–332
- **Astronautics**
  - Wu, S. T., 21.7–247
- **Astronautics in meteorology**
  - *Facilities for Atmospheric Research* [Boulder, Colo.], 21.5–100
- **Astronautics research and development**
  - American Astronautical Society, 21.7–738
  - Steinhoff, E. A., 21.5–687
- **Astronomical conferences**
  - Brancazio, P. J., 21.1–24
- **Astronomical photography techniques**
  - Evans, D. C. et al., 21.1–447
- **Astronomical reviews**
  - Annual Review of Astronomy and Astrophysics, Palo Alto, Calif., 21.3–710
- **Astronomical seeing**
  - Grossmann-Doerth, U., 21.12–619
- **Astronomical Yearbook**
  - Astronomischer Jahresbericht, 21.9–108R
- **Astrophysical conferences**
  - International Council of Scientific Unions, 21.11–547
- **Astrophysical magnetohydrodynamics**
  - Anand, S. P. S., 21.4–422
  - Vainshtein, S. I., 21.1–683
- **Astrophysical observatories**
  - Newkirk, G., Jr. et al., 21.5–37
- **Astrophysical research**
  - Kodaikanal, India. Observatory, 21.8–711
- **Astrophysical studies**
  - Muller, P. M., 21.12–105
- **Astrophysics**
  - Becker, R. A., 21.3–146
  - Jaki, S. L., 21.8–710
  - Makhan'kov, V. G. et al., 21.5–359
  - *Nature* [London], 21.4–425
  - U. S. Naval Research Laboratory, 21.3–139
- **Astrophysics handbooks**
  - Elbaz, C., 21.6–687
- **Astrophysics reviews**
  - Annual Review of Astronomy and Astrophysics, Palo Alto, Calif., 21.3–710
- **Astrophysics textbooks**
  - Brandt, J. C., 21.8–260
  - Sobolev, V. V., 21.8–712
- **Atlantic current**
  - Mosby, H., 21.4–640
- **Atlantic Ocean**
  - Ivanov, V. N. et al., 21.2–765
- **Atlantic Underseas Test and Evaluation Center (AUTEC)**
  - Jaeger, J. E., 21.2–689
- **Atmosphere carbon dioxide**
  - Lieurance, N. A., 21.5–75
- **Atmosphere composition**
  - Abel, N., 21.7–127
- **Atmosphere computer programs**
  - Titt, E. W., 21.6–289
- **Atmospheric–cosmic ray effects circulation**
  - Sazonov, B. I., 21.7–264
- **Atmosphere energy balance**
  - Lucke, O. et al., 21.10–263
- **Atmosphere heating**
  - Avaste, O. A. et al., 21.7–342
- **Atmosphere hydrocarbons**
  - Commins, B. T., 21.6–172
- **Atmosphere–laser beams effects**
  - Waksberg, A. L., 21.11–19
- **Atmosphere–laser effects**
  - Kerr, J. R., 21.6–673
- **Atmosphere of Mars**
  - Davydov, V. D., 21.12–607
- **Atmosphere–solar radio emissions effects**
  - Picherit, F., 21.10–582
- **Atmosphere stability**
  - Anderson, D. V., 21.6–272
- **Atmosphere tides**
  - Chapman, S., 21.11–331
- **Atmospheric absorption**
  - Kozyrev, B. P. et al., 21.4–144
  - Noxon, J. F., 21.10–274

Atmospheric absorption measurements
  Haroules, G. G. et al., 21.4–142
Atmospheric absorption spectra
  Rudnev, Iu. I. et al., 21.8–573
Atmospheric acids
  Dubrovskaia, F. I., 21.5–244
Atmospheric ammonia
  Healy, T. V., 21.12–215
Atmospheric argon-37
  Loosli, H. H. et al., 21.8–213
Atmospheric benzene
  Vengerskaia, Kh. Ia. et al., 21.5–301
Atmospheric beryllium
  Noshkin, V. E., 21.4–82
Atmospheric boundary layer
  Orlenko, L. R., 21.9–61R
Atmospheric carbon (CO)
  Seiler, W., 21.12–223
Atmospheric carbon dioxide
  Akiyama, T. 21.7–129
  Brown, K. W. et al., 21.5–220
  Clarke, J. F., 21.5–241
  Johnson, P. L., 21.12–217
  Kelley, J. J., Jr., 21.12–218
  Miyake, Y. et al., 21.4–43
  Seiler, W., 21.12–223
Atmospheric carbon monoxide
  Bove, J. L., 21.12–232
  Die Umschau [Frankfurt a.M.], 21.5–268
  Pressman, J. et al., 21.6–167
  Weinstock, B., 21.5–232
Atmospheric chemical composition
  Gordon, R. J. et al., 21.5–251
Atmospheric chemical contaminants
  Swinnerton, J. W. et al., 21.5–231
Atmospheric chemistry
  Dmitriev, M. T. et al., 21.3–48
  Fehsenfeld, F. C., 21.3–316
  Healy, T. V., 21.12–215
  McGovern, W. E., 21.1–281
  Nemenko, B. A. et al., 21.3–50
  Petriconi, G. L. et al., 21.6–164
  Starshov, I. M. et al., 21.3–52
  Tsendrovskaia, V. A. et al., 21.3–53
  Urone, P. et al., 21.1–276
Atmospheric circulation
  Andrews, J. F., 21.9–240R
  Girs, A. A., 21.11–10R
  Palmen, E. et al., 21.6–313
  Reiter, E. R. et al., 21.3–435
  Roden, G. I., 21.6–302
  Wagner, A. James, 21.9–246R
Atmospheric circulation, 26-mo cycle
  Bohme, W., 21.8–223
Atmospheric circulation and weather
  Green, R. A., 21.11–83R
Atmospheric circulation anomalies
  Martinov, M., 21.10–317
  Niketta, D., 21.4–92
  O'Connor, J. F., 21.3–434
Atmospheric circulation calculations
  Mattana, N. et al., 21.2–92
Atmospheric circulation changes
  Bulinskaia, N. A., 21.1–375
  Militaru, F. et al., 21.1–396
Atmospheric circulation–climatic variation relationships
  Dzerdzeevskiĭ, B. L., 21.1–378
Atmospheric circulation dynamics
  Kondrat'ev, K. Ia., 21.11–255
  Mashkovich, S. A., 21.6–311
  Rakipova, L. R., 21.6–315
  Riehl, H., 21.5–403
  Sankar, R. M. et al., 21.5–404
Atmospheric circulation–Earth's rotation relationships
  Sidorenkov, N. S., 21.1–385
Atmospheric circulation equations
  Izakov, M. N., 21.4–52
Atmospheric circulation experiment
  Raethjen, P., 21.7–277
  Stone, P. H., 21.6–316
Atmospheric circulation fluctuations
  Bayer, K. et al., 21.6–290
Atmospheric circulation–geomagnetic relationships
  Bolotinskaia, M. Sh. et al., 21.6–291
Atmospheric circulation mechanics
  Dickinson, R. E., 21.5–394
  Wiin-Nielsen, A., 21.7–280
Atmospheric circulation models
  Belich, R. B. et al., 21.6–305
  Chebotarev, R. P., 21.8–227
  Hastenrath, S., 21.7–272
  Holton, J. R., 21.1–389
  Mashkovich, S. A., 21.6–311
  Morel, P. et al., 21.6–312
  Wiin-Nielsen, A., 21.7–280
Atmospheric circulation–oceanic circulation relationships
  Zilitinkevich, S. S., 21.7–268
Atmospheric circulation over Africa
  Struning, J. O. et al., 21.5–410
Atmospheric circulation over West Africa
  Voiron, H., 21.12–370
Atmospheric circulation regimes
  Dzerdzeevskiĭ, B. L., 21.1–378
  Pogosian, Kh. P., 21.6–300
Atmospheric circulation research
  Mashkovich, S. A., 21.6–311

Atmospheric circulation–sea temperature relationships
  Nazirov, M., 21.3–572
Atmospheric circulation–solar activity relationships
  Sleptsov-Shevievich, B. A., 21.2–90
Atmospheric circulation studies
  Astapenko, P. D. et al., 21.1–373
  Fernandez-Partagas, J. J., 21.12–366
  Karol, I. L., 21.11–245
Atmospheric circulation–sunspot relationships
  Bohme, W., 21.8–223
Atmospheric circulation theories
  Hare, F. K., 21.2–284
Atmospheric circulation, 26-month cycle
  Bohme, W., 21.8–223
Atmospheric composition
  Dobbins, D. L. et al., 21.3–56
Atmospheric composition measurements
  Boudreau, R. D., 21.12–33
  Ponzi, S., 21.12–120
  Schwiesow, R. L., 21.12–222
Atmospheric conductivity
  Cobb, W. E., 21.11–506
Atmospheric convective cells
  Janeselli, R., 21.4–245
Atmospheric corrosion effects
  Knotkova-Čermáková, D., 21.6–656
Atmospheric cosmic ray dosages
  Juday, R. D. et al., 21.7–411
Atmospheric depolarization measurements
  Bradford, J. N. et al., 21.7–72
Atmospheric diffusion
  Clayton, W. H. et al., 21.6–7
  Fiedler, F., 21.6–484
  Morik, J., 21.6–489
Atmospheric diffusion calculations
  Bodurtha, F. T. et al., 21.6–482
  Fiedler, F., 21.7–250
  Marsh, K. J. et al., 21.4–203
  Tadmor, J. et al., 21.8–222
Atmospheric diffusion experiments
  Assaf, G., 21.12–322
  Elderkin, C. E., 21.12–361
  Garger, E. K., 21.4–202
Atmospheric diffusion forecasting
  Munn, R. E., 21.4–354
Atmospheric diffusion formulas
  Carson, J. E., 21.7–482
Atmospheric diffusion studies
  Berliand, M. E., 21.9–8R, –9R
  Blanc, D. et al., 21.3–398
  Polster, G., 21.8–220
  Sachdev, R. N. et al., 21.4–207
  Van der Hoven, I. (ed.), 21.8–334
Atmospheric dissipation
  Ellsaesser, H. W., 21.3–424
Atmospheric disturbances
  Carlson, T. N., 21.6–318
  Douchy, P., 21.6–319
  Fernandez-Partagas, J. J., 21.12–366
  Fett, W., 21.6–321
  Voiron, H., 21.12–370
Atmospheric disturbances energetics
  Rao, G. V., 21.6–324
Atmospheric dust
  Prospero, J. M. et al., 21.6–181
  Shah, G. M., 21.11–495
Atmospheric dust measurements
  Zier, M., 21.6–112
Atmospheric dynamics
  Bretherton, F. P. et al., 21.10–218
  Derome, J. F., 21.3–412
Atmospheric–Earth crust effects
  Ernst, Werner, 21.6–734
Atmospheric eddies
  Hanna, S. R., 21.4–232
  Zimmerman, L. I., 21.4–89
Atmospheric effects on astronomical observations
  Belkin, A. D. et al., 21.10–479
  Coulman, C. E., 21.2–453
  Grossmann-Doerth, U., 21.12–619
Atmospheric effects on laser beams
  Gilmartin, T. J. et al., 21.6–252
Atmospheric effects on materials
  Grundke, G., 21.6–653
  Lebedev, A. N. et al., 21.4–346
Atmospheric effects on radio wave propagation
  Kompfner, R., 21.2–406
Atmospheric effects on sonic booms
  Pierce, A. D., 21.7–728
Atmospheric electric currents
  Gherzi, E., 21.1–132
Atmospheric electric field
  Muhleisen, R., 21.8–601
Atmospheric electrical conductivity
  Ishikawa, H. et al., 21.10–56
Atmospheric electricity
  Iordanov, D., 21.3–690
  Israel, H. et al., 21.2–350
Atmospheric electricity agitation
  Gutop, Iu. V. et al., 21.8–599
Atmospheric electricity conferences
  International Conference on the Universal Aspects of Atmospheric Electricity, 4th, Tokyo, 1968, 21.9–422
Atmospheric electricity data
  Bucharest. Observatorul de Fizica Atmosferei, 21.10–42
  Expedition Antarctique Belgo–Néerlandaise, 1964, 21.8–598

Gherzi, E., 21.7–33
Teheran. Univ., Institute of Geophysics, 21.9–424

Atmospheric electricity effects
Stetter, G., 21.12–212

Atmospheric electricity effects on rockets
Israël, H., 21.12–66

Atmospheric electricity measurements
Anderson, R. V. et al., 21.3–689
Israël, H., 21.9–423
Muhleisen, R., 21.8–600
Schuman, E. L., 21.3–692

Atmospheric electricity research
Frimescu, M., 21.12–582
Imianitov, I. M., 21.9–42R
Von Kilinski, E., 21.10–490

Atmospheric electricity studies
Vonnegut, B., 21.3–688

Atmospheric electricity theories
Sartor, J. D., 21.4–376
Webb, W. L., 21.8–596

Atmospheric emissions
Haroules, G. G. et al., 21.4–142

Atmospheric energetics
Blumen, W. et al., 21.5–370
Bullock, B. R. et al., 21.1–535
Cadez, M., 21.2–82
Fortak, H., 21.6–266
Hastenrath, S. L., 21.5–398, –399; 21.6–268
Holopainen, E. O., 21.4–85; 21.6–270
Leovy, C., 21.2–91
Madden, R. A. et al., 21.8–216
Smith, P. J. et al., 21.5–406, –407; 21.12–352
Wiin-Nielsen, A., 21.12–351

Atmospheric extinction
Ahlquist, N. et al., 21.11–491
Irvine, W. M., 21.6–672
Lloyd, K. H., 21.10–273

Atmospheric flows
Shakina, N. P. et al., 21.2–224

Atmospheric 14-month cycle
Khaminov, N. A., 21.5–665

Atmospheric fronts
Serban, A. et al., 21.4–123

Atmospheric gases
Kondrat'ev, K. Ia., 21.1–450
Kozyrev, B. P. et al., 21.10–139
McCaa, D. J. et al., 21.4–42

Atmospheric graphics
Johnson, N. L., 21.8–21

Atmospheric gravity waves
Hayes, W. D., 21.7–240
Hines, C. O., 21.6–278
Jones, W. L., 21.12–356
Shere, K. D. et al., 21.7–242
Tolstoy, I. et al., 21.6–271, –472
Yanowitch, M., 21.7–243

Atmospheric heating
Laitinen, E., 21.4–171

Atmospheric helium
Axford, W. I., 21.6–166
Clarke, W. B. et al., 21.2–724
Krasovskiĭ, V. I., 21.4–71

Atmospheric hydrogen
Krasovskii, V. I., 21.4–71

Atmospheric icing of structures
Boyd, D. W. et al., 21.6–573

Atmospheric interactions
Greenfield, S. M., 21.8–121

Atmospheric ionic composition
Danilov, A. D. et al., 21.4–381

Atmospheric ionization
Johler, J. R., 21.3–694

Atmospheric ions
Loeb, L. B., 21.2–355
Siksna, R., 21.8–602

Atmospheric kinetic energy
Hastenrath, S., 21.6–306
Holopainen, E. O., 21.10–216
Kung, E. C., 21.3–236
Oort, A. H., 21.3–417

Soong, Su Tzai et al., 21.5–408

Atmospheric kyrpton-81
Loose, H. H. et al., 21.8–213

Atmospheric lead-210
Beasley, T. M., 21.5–362
Magno, P. J., 21.12–335

Atmospheric lidar research
Collis, R. T. H., 21.2–10
Johnson, W. B. et al., 21.8–27

Atmospheric light scattering
Sobolev, V. V., 21.8–574

Atmospheric light transmission
Link, F. et al., 21.4–366
Vondrak, J., 21.4–369

Atmospheric mercury
Pakter, M. K., 21.3–325

Atmospheric microoscillations
Dutton, J. A., 21.11–42

Atmospheric microwave emissions
Dombkovskaia, E. P., 21.5–48

Atmospheric models
Derome, J. F., 21.3–412
Robert, A., 21.3–341
Tolstoy, I. et al., 21.6–271

Atmospheric moisture content
Williams, G. D. V. et al., 21.5–548

Atmospheric moisture transfer
Koshelenko, I. V., 21.4–249

Atmospheric motion
Dickinson, R. E., 21.5–377, –378

Atmospheric nitrogen
Beilke, S., 21.5–217

Atmospheric nitrogen dioxide
Ellsworth, E., 21.10–88
Knauer, A., 21.6–175

Atmospheric nitrous oxide (N_2O)
Schutz, K., 21.12–221
Wang, V. et al., 21.6–188

Atmospheric noise measurements
Lauter, E. A. et al., 21.5–35

Atmospheric numerical models
  Nonin, A. S. et al., 21.3–339
  Pandolfo, J. P., 21.3–340
Atmospheric optics
  Deitz, P. H., 21.6–251
  Ibraimov, N. M. et al., 21.5–676
  Link, F. et al., 21.4–366
Atmospheric optics equipment
  Rudnev, Iu. I. et al., 21.8–573
Atmospheric optics instruments
  Mikhailov, V. V., 21.10–33R
Atmospheric optics research
  Fesenkov, V. G., 21.10–478
  Poliakova, E. A., 21.10–41R
Atmospheric optics symposia
  Mezhvedomstvennoe Soveshchanie po Aktinometrii i Optike Atmosfery, 6th, Tartu, June 13–18, 1966, 21.1–29
Atmospheric oscillations
  Dickinson, R. E., 21.5–377, –378
  Dikiĭ, L. A., 21.7–239
  Giwa, F. B. A., 21.1–475
Atmospheric oxidant level
  Wisse, J. A., 21.12–213
Atmospheric oxygen-18
  Craig, H., 21.12–323
Atmospheric ozone
  Khrgian, A. Kh., 21.3–364
Atmospheric ozone circulation
  Khrgian, A. Kh. et al., 21.1–326
Atmospheric ozone research
  Regener, V. H., 21.12–220
Atmospheric particulates
  Prospero, J. M. et al., 21.6–181
Atmospheric photochemical processes
  Cadle, R. D. et al., 21.6–163
Atmospheric pollutant absorption
  Gol'berg, M. S. et al., 21.5–36
Atmospheric pollutants
  Robinson, E. et al., 21.5–280
Atmospheric pollution
  Alexander, M., 21.3–697
  Cawley, J. L., 21.3–332
  Commoner, B., 21.9–123
  Crafts, E. C., 21.8–135
  Detrie, J. P., 21.3–333
  Dubrovskaia, F. I., 21.5–244
  East, C., 21.5–245
  Fiedler, F., 21.6–484
  Gol'dberg, M. S., 21.5–250
  Lindberg, W., 21.8–140
  Lodge, J. P., Jr., 21.5–265
  Maunder, W. J. et al., 21.1–303; 21.5–270
  Santomauro, L., 21.2–55
  Schaefer, V. J., 21.1–306
  U. S. National Air Pollution Control Administration, 21.5–298
  Warren, H. V. et al., 21.1–310
  Woodwell, G. M., 21.5–305
Atmospheric pollution analysis
  Beran, F. et al., 21.6–105
  Brar, S. S., 21.12–233
  Ellsworth, E., 21.10–88
  Gordon, R. J. et al., 21.5–251
  Inaba, H. et al., 21.5–258
  Kachmar, E. G. et al., 21.9–126
  Lux, H., 21.6–177
  Saliamon, G. S., 21.5–281
  Sinkuvene, D. S., 21.12–260
  Snitkovskaia, T. M. et al., 21.1–307
  Stephens, E. R., 21.12–264
  Tarasov, V. V. et al., 21.6–185
Atmospheric pollution and agriculture
  Mukammal, E. I. et al., 21.5–275
Atmospheric pollution and health
  Benson, C. S., 21.7–134
  Bespalov, A. I. et al., 21.1–284
  Fel'dman, Iu. G. et al., 21.1–293
  Khotsianov, L. K. et al., 21.1–298
  Lindberg, W., 21.8–140
  McCormick, R. A., 21.7–146
  Mórik, J., 21.7–147
  Neuwirth, R., 21.7–63
  Tabakova, S. A., 21.8–150
  Verzár, F., 21.7–153
Atmospheric pollution calculations
  Bowne, N. E., 21.5–236
  Budzinski, K., 21.7–249
  Lehmann, A., 21.6–488
  Marsh, K. J. et al., 21.4–203
  Němec, L., 21.7–485
  Wojciechowski, K., 21.5–304
Atmospheric pollution chemistry
  Altshuller, A. P., 21.12–226
  Glasson, W. A., 21.12–239
  Hales, J. M. et al., 21.7–144
  Pitts, J. N., Jr., 21.12–253
  Schuck, E. A., 21.12–257
  Stephens, E. R., 21.12–265
  Thomas, J. F. et al., 21.6–186
  Urone, P. et al., 21.1–276; 21.5–300
Atmospheric pollution conferences
  Brun, M., 21.5–239
  Strauss, W., 21.8–149
Atmospheric pollution control
  American Chemical Society, 21.5–234
  American Institute of Chemical Engineers, 21.9–120
  American Public Health Association, N.Y., 21.9–121
  Benson, C. A., 21.7–134
  Berindam, C., 21.6–169
  Bespalov, A. I. et al., 21.1–284

  Beveridge, G. S. G., 21.12–229
  Bezuglaia, E. Iu., 21.9–12R
  Borgwardt, R. H., 21.12–227
  Brazell, J. H., 21.12–234
  Brun, M., 21.5–239
  Caplan, K. J., 21.1–287
  Cramer, O. P., 21.1–288
  Craxford, S. R. et al., 21.7–139
  Crutchfield, J. A., 21.1–289
  Dalu, G. A., 21.11–159
  Danielson, J. A., 21.5–243
  Dubrovskaia, F. I. et al., 21.1–291
  Environmental Science & Technology [Wash., D. C.], 21.8–137, –695; 21.9–128
  Francois, R. Ch. et al., 21.5–247
  Greenberg, D. S., 21.7–143
  Kaliuzhnyi, D. N. et al., 21.5–262
  Khotsianov, L. K. et al., 21.1–298
  Larsen, R. I., 21.12–244
  Li Kun et al., 21.6–176
  Lodge, J. P., Jr. (ed.), 21.10–142
  McKellar, H. A., 21.12–246
  Middleton, J. T., 21.8–143
  Neiburger, M., 21.7–150
  Panofsky, H. A., 21.1–304
  Rossano, A. T., Jr., 21.1–305
  Russell, W. E., 21.12–256
  Rydell, C. P., 21.2–54
  Sawyer, R. F., 21.10–144
  Stephens, E. R. et al., 21.8–148
  Szepesi, D., 21.10–145
  Tait, G. W. C., 21.4–208
  Technology Review [Cambridge, Mass.], 21.5–303
  Tunney, J., 21.12–267
  U. S. Bureau of Mines, 21.5–294
  U. S. Congress. House, 21.8–151
  U. S. Congress. Senate. Committee on Public Works. Subcommittee on Air and Water, 21.1–309
  U. S. Dept. of Health, Education, and Welfare, 21.5–295 to 297
  U. S. National Air Pollution Control Administration, 21.6–187; 21.8–152
  U. S. President's Council on Recreation and Natural Beauty, 21.4–414
  Ward, T. M., 21.12–271
  Whaley, H. et al., 21.6–189

Atmospheric pollution control guide
  Soffey, P. M., 21.5–238

Atmospheric pollution control studies
  Gil'denskiol'd, R. S., 21.9–32R

Atmospheric pollution damage to forests
  Wert, S. L., 21.12–272

Atmospheric pollution damage to trees
  Rosini, E., 21.11–164

Atmospheric pollution data
  Belgium. Institute Royal Météorologique, 21.8–134
  Son'kin, L. R., 21.9–83R
  U. S. National Air Pollution Control Administration, 21.12–268

Atmospheric pollution diffusion
  Berliand, M. E., 21.12–228
  Budzinski, K., 21.7–249
  Fiedler, F., 21.9–259
  Kicłyo, K., 21.7–145
  Lucke, O. et al., 21.3–427
  McKellar, H. A., 21.12–246
  Marmershteĭn, I. I. et al., 21.10–231
  Parczewski, W., 21.6–180
  Patrichi, F. et al., 21.4–205
  Rein, F., 21.6–183
  Shirvaikar, V. V. et al., 21.1–498
  Slade, D. H., 21.3–590
  Tadmor, J. et al., 21.8–222
  Tait, G. W. C., 21.4–208
  Weisman, B., 21.1–311
  Wojciechowski, K., 21.5–304

Atmospheric pollution dispersal
  Barry, P. J., 21.5–235
  Budziński, K., 21.7–136
  Chatwin, P. C., 21.1–491
  Gil'denskiol'd, R. S., 21.9–124
  Hoult, David P. et al., 21.3–598
  Munn, R. E., 21.7–148
  Panofsky, H. A., 21.1–304
  Rossano, A. T., Jr., 21.1–305
  Turner, D. B., 21.5–293

Atmospheric pollution dispersion
  Bodurtha, F. T. et al., 21.6–482
  Roberts, J. J. et al., 21.9–196

Atmospheric pollution distribution
  Bowne, N. E., 21.5–236

Atmospheric pollution effects
  Friedlander, S. K., 21.5–248
  Schaefer, V. J., 21.5–283
  U. S. National Air Pollution Control Administration, 21.7–152

Atmospheric pollution effects on climate
  Charlson, R. J. et al., 21.6–170

Atmospheric pollution effects on crops
  Mukammal, E. I. et al., 21.5–275

Atmospheric pollution effects on plants
  Stein, G., 21.6–184

Atmospheric pollution effects on radiation
  Charlson, R. J. et al., 21.6–170
  Coulson, K. L., 21.12–414

Atmospheric pollution, England
  Clean Air Yearbook [London], 21.9–114R

Atmospheric pollution estimation
  Budziński, K., 21.7–136
  Shirvaikar, V. V. et al., 21.1–498

Turner, D. B., 21.5–293
Whaley, H., 21.1–500

Atmospheric pollution–fog formation effects
Brazell, J. H., 21.12–234

Atmospheric pollution forecasting
Craxford, S. R. et al., 21.7–139
Gil'denskiol'd, R. S., 21.9–124
Kirschner, B. H., 21.10–114

Atmospheric pollution–fungus effects
Marchesani, V. J., 21.8–141

Atmospheric pollution instruments
Belgium. Institute Royal Meteorologique, 21.8–134
Benarie, M. et al., 21.6–104
Charlson, R. J., 21.6–107
Jeltes, R., 21.7–62

Atmospheric pollution manuals
American Public Health Association, N.Y., 21.9–121
Danielson, John A., 21.5–243

Atmospheric pollution measurement techniques
Chemical Engineering [N.Y.], 21.11–103
Hamilton, P. M., 21.1–295

Atmospheric pollution measurements
Baszczyk, B., 21.12–230
Benarie, M. et al., 21.7–58
Bourbon, P. et al., 21.3–331
Charlson, R. J., 21.6–107
Colacino, M. et al., 21.7–138
Hoschele, K., 21.5–256
Moffat, A. J., 21.12–249
Nader, J. S. et al., 21.5–108
Neuwirth, R., 21.7–63
Okita, T., 21.12–112
Petit, L., 21.8–145
Rijkoort, P. J., 21.12–85
Rosini, E., 21.11–164
Serat, W. F. et al., 21.5–285
Steinhauser, F., 21.12–263
Yamada, V. M., 21.12–274

Atmospheric pollution meteorology
Buchan, W. E., 21.1–286
McCormick, R. A., 21.7–146
Mukammal, E. I. et al., 21.5–275
Munn, R. E. et al., 21.7–149
Neiburger, M., 21.7–150
Nuttonson, M. Y. (ed.), 21.9–136R
Panofsky, H. A., 21.1–304

Atmospheric pollution networks
Yamada, V. M., 21.12–274

Atmospheric pollution potentials
Kirschner, B. H., 21.10–114
Weisman, B., 21.1–311

Atmospheric pollution–precipitation relationships
Baszczyk, B., 21.12–230

Atmospheric pollution reports
U. S. National Air Resources Lab., Cincinnati, Ohio, 21.2–57

Atmospheric pollution research
Berliand, M. E., 21.9–8R to 10R
Sparrow, C. J., 21.12–261

Atmospheric pollution–respiration relationships
Verzár, F., 21.7–153

Atmospheric pollution sources
Beveridge, G. S. G., 21.12–229
George, Ralph E. et al., 21.8–138
Robinson, E. et al., 21.5–280
Rossano, A. T., Jr., 21.1–305
Sawyer, R. F., 21.10–144
Whaley, H. et al., 21.6–189

Atmospheric pollution standards
Environmental Science and Technology [Wash., D.C.], 21.9–128
Larsen, R. I., 21.12–244
Szepesi, D., 21.10–145
Takhirov, M. T., 21.1–308

Atmospheric pollution studies
Osipov, Iu. S., 21.2–87
Vadot, L., 21.3–336

Atmospheric pollution surveys
Craxford, S. R. et al., 21.7–139
Kertesz-Saringer, M. et al., 21.5–263
Montana. Div. of Air Pollution Control and Industrial Hygiene, Helena, 21.11–163
Neuwirth, R., 21.7–63

Atmospheric pollution symposia
Bezuglaia, E. Iu., 21.3–330
Environmental Science and Technology [Wash., D.C.], 21.5–233
International Meteorological Symposium on Air Pollution, Leningrad, 1968, 21.1–297
Ogneva, T. A., 21.10–143
Teneva, N., 21.2–56

Atmospheric pollution transfer
Hirt, M. S. et al., 21.9–125

Atmospheric pollution transport
Machta, L., 21.9–127
Munn, R. E., 21.4–354

Atmospheric pollution variations
Buchan, W. E., 21.1–286
Schmidt, F. H. et al., 21.5–284

Atmospheric pollution–visibility effects
Brazell, J. H., 21.12–234
Lamp, R., 21.8–363
McKellar, H. A., 21.12–246

Atmospheric pollution–visibility relationships
Charlson, R. J. et al., 21.6–171, –670
Horvath, H. et al., 21.10–476

Atmospheric pollution–weather relationship
Goroshko, B. B., 21.9–37R

Harada, H., 21.5–253
Knauer, A., 21.6–175
Lawrence, E. N., 21.1–300
Rein, F., 21.6–183
Schmidt, F. H. et al., 21.5–284
Selitskaia, V. I., 21.9–75R
Son'kin, L. R., 21.9–84R

Atmospheric pressure effects
Tanaka, T., 21.1–471

Atmospheric pressure on the Moon
Rozenberg, G. V., 21.12–599

Atmospheric pressure trends, North Atlantic
Rodewald, N., 21.11–261

Atmospheric process measurements
Berg, T. G. et al., 21.5–103

Atmospheric processes
Alekseeva, I. A., 21.3–100
Rahau, L. et al., 21.3–295

Atmospheric processes analysis
Borisova, E. I., 21.2–40
Borisova, L. C., 21.2–39

Atmospheric radiation
Grobecker, A. J., 21.12–427
Lapshin, V. I., 21.12–36

Atmospheric radiation measurements
Chaney, L. W., 21.10–277
Girdiuk, G. V., 21.6–25

Atmospheric radiational warming
Faraponova, G. P., 21.6–375

Atmospheric radiative transfer
Fymat, A. L. et al., 21.4–140, –141

Atmospheric radio emissions
Basharinov, A. E., 21.12–69
Paris, J. F., 21.7–25

Atmospheric radio wave absorption
Khrulev, V. V. et al., 21.3–393

Atmospheric radio wave propagation effect
Misme, P., 21.10–64

Atmospheric radioactive particles
Renoux, A. et al., 21.1–343

Atmospheric radioactive pollution
Luma, R. E., 21.1–493

Atmospheric radioactive tracers
Karol, I. L., 21.11–245
Machta, L., 21.12–345

Atmospheric radioactivity
Brendakov, V. F. et al., 21.1–340
Garbaliaukas, Ch. A. et al., 21.1–203
Matousck, J. et al., 21.1–341
Subba Ramu, M. C. et al., 21.4–80
Zier, M., 21.12–332

Atmospheric radioactivity distribution
Simon, A., 21.1–344

Atmospheric radioactivity measurements
Bucharest. Observatorul de Fizica Atmosferei, 21.10–42
Simon, A., 21.1–344
Suschny, O., 21.6–119

Atmospheric radioactivity research
Battelle Memorial Institute. Pacific Northwest Lab., Richland, Wash., 21.10–210

Atmospheric radiocarbon
Grey, D. C., 21.10–211
Nydal, R., 21.12–336

Atmospheric radon
Jonassen, Niels, 21.12–325
Prospero, J. M., 21.12–330
Rama, 21.3–611
Shearer, S. D., Jr., 21.3–401
Subba Ramu, M. C. et al., 21.4–80

Atmospheric radon daughter products
Mattsson, R., 21.12–328
Porstendorfer, J., 21.12–329

Atmospheric radon loss
Burke, T. P. et al., 21.1–339

Atmospheric radon tracers
Wilkening, M. H., 21.12–331

Atmospheric refraction
Brown, M. S., 21.10–205

Atmospheric research centers
Facilities for Atmospheric Research [Boulder, Colo.], 21.10–40

Atmospheric research instrumentation
Schaefer, V. J., 21.6–72

Atmospheric Research Program (GARP)
Conference on Plan for U. S. Participation in the Global Atmospheric Research Program, Boulder, Colo., Oct. 15–17, 1969, 21.10–16

Atmospheric satellites
Nature [London], 21.3–158

Atmospheric scattering
Dandekar, B. S., 21.8–243
Ianovitskiĭ, E. G., 21.9–468
Ivanov, A. I., 21.9–44R
Uesugi, A., 21.6–689

Atmospheric scattering index
Sholokhova, E. D., 21.12–579

Atmospheric science literature Soviet
U. S. Environmental Sciences Services Administration, 21.9–143R

Atmospheric sciences
Roberts, W. O. et al., 21.3–22

Atmospheric sensing
Beard, C. I. et al., 21.3–78
Lusignan, B. et al., 21.1–152

Atmospheric sounding systems
Bardeau, H., 21.1–192
Beard, C. I., 21.6–33
Birkemeier, W. P., 21.6–34
Brown, R. M., 21.7–26
Busch, N. E. et al., 21.10–222
Cialdea, R. et al., 21.4–363
Cox, D. C., 21.6–35
Gjessing, D. T., 21.4–47
Little, C. G., 21.8–660

National Research Council, Wash., D.C., 21.10–22
Pokrovskii, O. M., 21.9–22
Strohbehn, J. W., 21.6–37
Atmospheric spectral transparency
Georgievskii, Iu. S., 21.4–374
Atmospheric structure
Groves, G. V., 21.12–203
Atmospheric structure measurements
Gjessing, D. T., 21.12–320
Lee, R. W., 21.10–30
Atmospheric studies
Giorgi, M., 21.6–292
Atmospheric sulfates
Georgii, H. W., 21.12–210
Atmospheric sulfur
Georgii, H. W., 21.5–218
Robinson, E., 21.12–209
Rodhe, H., 21.12–255
Atmospheric sulfur dioxide
Beilke, S., 21.5–217
De Cormis, L. et al., 21.7–140
Detrie, J. P., 21.3–333
Diaconescu, Gh. I. et al., 334
East, C., 21.5–245
Francois, R. Ch. et al., 21.5–247
Knauer, A., 21.6–175
Mrose, H., 21.12–251
Podlaha, M., 21.7–151
Urone, P., 21.5–300
Urone, P. et al., 21.1–276
Warmbt, W., 21.6–111
Atmospheric sulfur oxide
Middleton, J. T., 21.8–143
Atmospheric temperature measurements
Wark, D. Q. et al., 21.3–547
Atmospheric temperature stratification
Kozhevnikov, V. P., 21.7–532
Atmospheric temperatures
Toscano, W. M., 21.5–119
Atmospheric thermodynamics
Cadez, M., 21.2–82
Atmospheric thoron
Israël, H., 21.12–324
Atmospheric tides
Asnani, G. C., 21.2–511
Giwa, F. B. A., 21.1–475
Jones, W. L., 21.12–356
Taffe, W. J., 21.4–57
Atmospheric trace constituents
International Symposium on Atmospheric Trace Constituents and Atmospheric Circulation, Heidelberg, 1969, 21.10–137
Atmospheric trace elements
Fischer, W. H. et al., 21.5–223
Atmospheric trace gases
Kuhme, H., 21.1–275
Atmospheric tracers
Nielsen, K. W. et al., 21.5–278
Atmospheric transmission
Sobolev, V. V., 21.8–571
Timofeev, Iu. M., 21.11–30R
Atmospheric transmission measurements
Kyle, T. G. et al., 21.8–242
Atmospheric transmittance
Idso, S. B., 21.10–275; 21.12–241
Wells, M. B. et al., 21.2–6
Atmospheric transparency
Filippov, V. L. et al., 21.7–334
Vinokurova, D. V., 21.2–125
Zuev, V. E., 21.9–99R
Atmospheric transparency coefficients
Chernavskaia, M. M., 21.5–447
Atmospheric transparency measurements
Chernavskaia, M. M., 21.5–447
Kruglov, R. A., 21.8–75
Polevitskii, K. K. et al., 21.8–76
Savikovskii, I. A., 21.8–77
Atmospheric transparency nomograms
Filippov, V. L. et al., 21.4–139
Atmospheric transport processes
Reiter, E. R., 21.9–201
Atmospheric tritium effects
Denham, D. H. et al., 21.1–175
Atmospheric tungsten-181
De Franceschi, L. et al., 21.5–361
Atmospheric tungsten-185
De Franceschi, L. et al., 21.5–361
Atmospheric turbulence
Bunkin, F. V. et al., 21.3–584
Busch, N. E. et al., 21.10–222
Ishimaru, A., 21.3–80
Stewart, R. W., 21.10–224
Atmospheric ultralong waves
Hirota, I., 21.7–274
Yeh, T. C. et al., 21.1–395
Atmospheric water content
Horne, R. A. et al., 21.1–559
Kutuza, B. G., 21.1–620; 21.9–49R
Atmospheric water vapor absorption spectra
Pokrovskii, A. G., 21.10–37R
Atmospheric wave instability
Agee, E. M., 21.5–368
Yeh, T. C. et al., 21.1–395
Atmospheric wave motion
Dickinson, R. E., 21.5–377, –378
Eliasen, E. et al., 21.5–396
Harkrider, D. G. et al., 21.5–372
MacKinnon, R., 21.6–507
Stewart, R. W., 21.10–224
Warren, F. W. G., 21.6–283
Atmospheric waves
Afashagov, M. S., 21.3–420
Busch, N. E. et al., 21.10–222
Carlson, T. N., 21.6–318
Douchy, P., 21.6–319
Egger, J., 21.5–395
Henry, T. J. G., 21.10–238
Hirota, I., 21.7–274
Mattioli, L. E., 21.1–391
Murakami, T., 21.11–258

Simons, T. J., 21.10–241
Wallace, J. M. et al., 21.3–439; 21.6–317
Wilson, H. P., 21.1–394

Atmospheric zonal circulation
Dolzhanskiĭ, F. V., 21.3–430

Attenuation coefficient measurements
O'Brien, H. W., 21.4–295

Attenuation coefficients
Filippov, V. L. et al., 21.7–332

Aurora breakup
Bernstein, W. et al., 21.11–289

Aurora–geomagnetic relationships
Shabanskiĭ, V. P., 21.11–522
Stassinopoulos, E. G., 21.11–538

Aurora–ionospheric relationships
Jespersen, M., 21.11–516

Aurora–magnetospheric relationships
Shabanskiĭ, V. P., 21.11–522

Aurora–radio wave propagation effects
Hofstee, J. et al., 21.9–451
Kukushkian, R. S., 21.11–518

Aurora symposia
NATO Advanced Study Institute, Agricultural College of Norway, As, Norway, July 29–Aug. 9, 1968, 21.7–358

Aurorae research
Akademiia Nauk SSSR. Mezhduvedomstvennyĭ Geofizicheskiĭ Komitet, 21.12–1R

Auroral absorption
Hargreaves, J. K., 21.10–510
Hultqvist, B., 21.6–228
Shumilov, O. I., 21.1–664
Wilson, C. R., 21.10–525

Auroral absorption–electron precipitation relationships
Jelly, D. H., 21.6–680

Auroral absorption–geomagnetic activity relationships
Shepherd, D. C. et al., 21.2–372
Zhulina, E. M., 21.9–453

Auroral absorption of cosmic noise
Driatskiĭ, V. M., 21.10–506

Auroral absorption zone
Driatskiĭ, V. M., 21.10–506
Gorbushina, G. N. et al., 21.2–366

Auroral activity
Tsuruda, M., 21.2–374

Auroral arc distribution
Sievwright, W. M., 21.2–376

Auroral backscatter
Lange Hesse, G., 21.10–513
Sofko, G. J., 21.11–524

Auroral conjugacy
Hargreaves, J. K., 21.10–539

Auroral–cosmic radio noise absorption relationships
Gustafsson, G., 21.10–509

Auroral distribution
Eather, R. H., 21.7–350
Giorgi, M. et al., 21.2–370
Khorosheva, O. V., 21.2–375; 21.11–542
Kvifte, G. J. et al., 21.9–446

Auroral electric fields
Haerendel, G. et al., 21.8–179
Wescott, E. M., 21.8–613

Auroral electrojet
Potter, W. E. et al., 21.8–196
Wescott, E. M. et al., 21.8–613
Wilson, C. R., 21.11–528

Auroral electron angular distribution
Reasoner, D. L., 21.11–521

Auroral electron energy spectra
Gérard, Jean-Claude et al., 21.10–528
Rees, M. H. et al., 21.8–657

Auroral electron energy spectrum
Evans, D. S., 21.10–507
Williams, A. J., 21.11–541

Auroral electrons
Akasofu, S. I., 21.11–510
Courtier, G. M. et al., 21.10–504
Eather, R. H. et al., 21.9–444
Harrison, A. W., 21.11–532
McNamara, A. G., 21.9–447
O'Neil, R. et al., 21.10–546
Rees, M. H., 21.9–449
Viswanathan, K. S., 21.11–526
Walt, M. et al., 21.7–386; 21.10–523

Auroral emission lines
Brown, R. R., 21.11–530
Gérard, Jean-Claude et al., 21.10–528

Auroral emissions
Meyerett, R. E. et al., 21.10–515
Opal, C. B. et al., 21.10–520
Swider, W., Jr., 21.7–361

Auroral energy excitation
Krasovskiĭ, V. I., 21.8–656

Auroral energy excitation mechanism
McNeal, R. J., 21.11–534
Meyer, J. A., 21.11–535
Williams, A. J., 21.11–541

Auroral excitation
Rees, M. H. et al., 21.8–657

Auroral frequencies
Giorgi, M. et al., 21.2–370

Auroral–geomagnetic relationships
Bond, F. R., 21.10–501
Fel'dshtein, Ia. I. et al., 21.10–508
Ignatov, V. S., 21.9–170
Jones, A. V., 21.10–530
Kamide, Y. et al., 21.7–719
Krasovskiĭ, V. I., 21.8–656
Kvifte, G. J. et al., 21.9–446

Auroral green line
Brown, R. R., 21.11–530
Meyer, J. A., 21.11–535

Auroral heights
- Khorosheva, O. V., 21.11–542

Auroral helium lines
- Harrison, A. W., 21.11–532
- Stoffregen, W., 21.11–539

Auroral hiss
- Jørgensen, T. S., 21.10–543

Auroral hydrogen emissions
- Akasofu, S. I., 21.11–510
- Miller, J. R. et al., 21.10–516
- Wax, R. L., 21.11–527

Auroral infrasonic waves
- Wilson, C. R., 21.10–525, –526; 21.11–528

Auroral intensities
- Green, A. E. S. et al., 21.7–330
- Murcray, W. B., 21.11–536

Auroral investigations
- Buchau, J. et al., 21.10–502
- Millman, Peter M., 21.11–520
- Ulwick, J. C., 21.11–525

Auroral ionization
- McNeal, R. J., 21.11–534
- Osipov, N. K. et al., 21.3–529

Auroral ionosphere
- Blumen, W., 21.10–500
- Chesnut, W. G., 21.10–157
- Jacobs, K. G. et al., 21.6–230
- Kukushkina, R. S., 21.11–518
- Reddy, C. A. et al., 21.10–184

Auroral–ionosphere effects
- Chimonas, G., 21.7–178; 21.9–152
- Flock, W. L. et al., 21.9–162

Auroral–ionospheric relationships
- Aggson, T. L., 21.8–597
- Brown, R. R., 21.11–530
- Cheyney, B. J., 21.9–442
- French, A. G., 21.7–182
- Ignatov, V. S., 21.9–170
- Meyerett, R. E. et al., 21.10–515
- Norton, R. B. et al., 21.10–518

Auroral luminosity variations
- Scourfield, M. W. J. et al., 21.10–522

Auroral–lunar relationships
- Vivona, F. M., 21.2–377

Auroral–magnetospheric relationships
- Akasofu, S. I., 21.10–529
- Bond, F. R., 21.10–501

Auroral morphology
- Bond, F. R., 21.10–501
- Fel'dshtein, Ia. I. et al., 21.10–508
- Jones, A. V., 21.10–530
- Omholt, A. et al., 21.10–519

Auroral motions
- Wilson, C. R., 21.10–525, –526

Auroral networks
- International Association of Geomagnetism and Aeronomy, 21.10–36

Auroral nitrogen bands
- Ahmed, M., 21.11–529
- McNeal, R. J., 21.11–534
- O'Neil, R. et al., 21.10–546
- Williams, A. J., 21.11–541

Auroral observation techniques
- Davis, T. N., 21.10–505
- Staniforth, A., 21.9–450

Auroral observations
- Kaminuma, K. et al., 21.9–445
- Lange-Hesse, G., 21.3–117

Auroral oval
- Akasofu, S. I., 21.10–529
- Starkov, G. V., 21.9–452

Auroral particle flux measurements
- Johnson, R. G. et al., 21.10–512

Auroral particle flux variations
- Arnoldy, R. L., 21.6–397

Auroral particles
- Meyerett, R. E. et al., 21.10–515

Auroral phenomena
- Fel'dshtein, Ia. I. et al., 21.10–508

Aurora photography
- Gowell, R. W., 21.3–129

Auroral photometry
- Dick, K. A. et al., 21.9–44
- Millman, P. M., 21.11–52

Auroral physics
- Chapman, S., 21.10–503
- Dungey, J. W., 21.11–531
- Green, A. E. S., 21.7–33
- Walt, M. et al., 21.10–52

Auroral precipitated particles
- Anderson, K. A., 21.8–257
- Block, L. P. et al., 21.6–220
- Chamberlain, J. W., 21.10–527
- Sharp, R. D., 21.11–523
- Whalen, B. A. et al., 21.10–524

Auroral protons
- Miller, J. R. et al., 21.10–516

Auroral pulsations
- Eather, R. H., 21.11–514
- Scourfield, M. W. J. et al., 21.10–522

Auroral rays
- Dziubenko, N. I., 21.11–513

Auroral research
- *American Geophysical Union, EOS, Transactions* [Wash., D. C.], 21.11–519
- Chapman, S., 21.10–503
- Riedler, W., 21.10–521

Auroral–solar relationships
- Milton, E. R., 21.10–517

Auroral spectrograms
- Jones, A. V., 21.10–511

Auroral spectroscopy
- Jones, A. V., 21.10–511, –530

Auroral substorms
- Anderson, K. A., 21.11–511
- Dungey, J. W., 21.11–531
- Jelly, Doris H., 21.6–680
- Kangas, J., 21.7–372
- Rao, C. S. R., 21.9–448
- Whalen, B. A. et al., 21.6–419; 21.10–524

uroral temperatures
McNamara, A. G., 21.9–447
Shepherd, G. G., 21.12–38
Walker, James C. G., 21.12–282
uroral theories
Ferraro, V. C. A., 21.2–138
Johnson, R. G. et al., 21.10–512
Krasovskiĭ, V. I., 21.8–656
Nikol'skiĭ, A. P., 21.11–537
O'Neil, R. et al., 21.10–546
uroral ultraviolet radiation
Joki, E. G., 21.11–517
uroral X-ray energy spectrum
Cambou, F. et al., 21.6–401
uroral X-ray measurements
Ogura, K. et al., 21.8–290
Wilson, B. G. et al., 21.7–388
uroral zone absorption
Belikovich, V. V. et al., 21.4–61
uroral zone electrojets
Fukushima, N., 21.7–718
Kamide, Y. et al., 21.7–719
uroral zone electron precipitation
Anderson, K. A., 21.11–511
Arnoldy, R. L., 21.6–397
Kangas, J., 21.7–372
Kremser, G., 21.6–407
McCormac, Billy M., 21.8–190
O'Brien, B. J., 21.9–225
Parks, G. K. et al., 21.7–380
Reasoner, D. L., 21.11–521
Scourfield, M. W. J. et al., 21.10–522
Whalen, B. A. et al., 21.6–419
Walt, M. et al., 21.7–386
uroral zone location
Starkov, G. V., 21.9–452
uroral zone proton precipitation
Arnoldy, R. L., 21.6–397
McCormac, B. M., 21.8–190
O'Brien, B. J., 21.9–225
Auroral zone X-rays
Cambou, F. et al., 21.6–401
Kangas, J., 21.7–372
Kremser, G., 21.6–407
Pfotzer, G., 21.6–412
Sekihara, K., 21.6–216
Auroral zones
Starkov, G. V. et al., 21.10–495
Auroras, Antarctic
Expéditions Polaires Françaises, 1948, 21.10–109R
Australia. Div. of Meteorological Physics
Australia. Commonwealth Scientific and Industrial Research Organization, Div. of Meteorological Physics, 21.3–4
Autocorrelation functions of reflected radiation
Boldyrev, V. G., 21.2–119
Automated computerized weather briefing
Hovey, R. L., 21.12–175
Automated weather stations
Hewett, D. G. et al., 21.6–98
Nature [London], 21.6–97
Patrichi, F., 21.6–99
Automatic auroral observation stations
Staniforth, A., 21.9–450
Automatic buoy stations
Brian, M., 21.6–96
Automatic chart plotting
Davies, A. F., 21.11–25
Automatic data processing
Baumgart, H. et al., 21.3–209
Collins, J. R., Jr., 21.9–13
Crutcher, H. L., 21.9–14
Hinkelmann, K., 21.8–16
Kliukin, N. K., 21.4–305
Komlev, A. M., 21.4–306
Semendiaev, K. A. et al., 21.6–16
Surnachev, N. V., 21.12–32
Automatic instrument stations
Culkowski, W. M., 21.1–193
Zlatin, A. L., 21.9–73
Automatic landing of aircraft
Watson, I. A., 21.12–469
Automatic marine weather stations
Wetter und Leben [Vienna], 21.11–63
Automatic Meteorological Observing System (AMOS-5)
Atkins, E. W. et al., 21.8–69
Automatic oceanographic stations
Beckers, C. et al., 21.2–686
Wetter und Leben [Vienna], 21.11–63
Winn, A. L. et al., 21.3–780
Automatic picture transmission
Tanczer, T., 21.5–53
Vermillion, C. H., 21.1–158
Automatic picture transmission ground station (APTGS)
Portune, J. E. et al., 21.10–37
Automatic picture transmissions
Clodman, J., 21.1–149
Automatic radiation recorders
Kvashnina, Z. K., 21.9–56
Automatic rain gage recorders
Patrichi, F. et al., 21.5–140
Automatic temperature meters
Nepomniashchiĭ, S. I., 21.9–58
Automatic weather stations
Afinogenov, L. P., 21.10–83
Atkins, E. W. et al., 21.8–69
Baumgart, H. et al., 21.3–209
Fateev, N. P., 21.8–70
Ivakhnenko, S. D., 21.8–71
Swingle, D. M., 21.7–55
World Meteorological Organization. Executive Committee, 21.1–83
Automatic wind stations
Jones, J. I. P., 21.11–89
Zavadovskiĭ, V. M. et al., 21.9–65

Automation
- Schanz, P., 21.3–25

Automation in meteorology
- Maine, R., 21.3–224

Automobile exhaust pollution
- Bove, J. L., 21.12–232
- Commins, B. T., 21.6–172
- *Die Umschau* [Frankfurt, a.M.], 21.5–268
- Fel'dman, Iu. G. et al., 21.7–141
- Gordon, R. J. et al., 21.5–251
- Kertesz-Saringer, M. et al., 21.5–263
- Kononova, V. A., 21.1–290
- Lahmann, E., 21.4–38
- Langer, G., 21.12–501
- Osswald, B., 21.2–53
- Sinkuvene, D. S., 21.12–260

Automobile exhaust pollution measurement techniques
- *Environmental Science and Technology* [Wash., D. C.], 21.5–276

Autumn forecasting
- Zakharova, N. M., 21.2–34

Avalanche control
- Efimov, M. K., 21.11–405
- Korolev, A. I., 21.11–407

Avalanche danger
- Emel'ianov, Iu. N., 21.11–406

Avalanche danger determination
- Kharitonov, G. G., 21.11–411
- Korolev, A. I., 21.11–407
- Moskalev, Iu. D., 21.11–414
- Runich, A. V., 21.11–409

Avalanche disasters
- Gallagher, D., 21.1–633

Avalanche distribution
- Runich, A. V., 21.11–409

Avalanche effects
- Severskiĭ, I. V., 21.5–636

Avalanche effects on forests
- Severskiĭ, I. V. et al., 21.5–636; 21.9–331
- Zalikhanov, M. Ch. et al., 21.9–332

Avalanche forecasting
- Kosarev, M. V., 21.11–413
- Moskalev, Iu. D., 21.11–414
- Suzuki, E., 21.5–184

Avalanche formation
- Denisov, Iu. M., 21.11–410
- Emel'ianov, Iu. N., 21.11–406
- Kharitonov, G. G., 21.11–411
- Korolev, A. I., 21.11–412
- Kosarev, M. V., 21.11–413
- Kozhevnikov, V. S., 21.11–408
- Moskalev, Iu. D., 21.11–394
- Severskiĭ, I. V. et al., 21.7–637
- Zalikhanov, M. Ch. et al., 21.9–333

Avalanche mechanics
- Denisov, Iu. M., 21.11–410
- Dolov, M. A. et al., 21.9–327
- Sommerfeld, R. A., 21.5–637
- Tsomaia, V. Sh., 21.1–634

Avalanche movement calculations
- Kumykov, Kh. K. et al., 21.9–330

Avalanche prevention
- Kozhevnikov, V. S., 21.11–408

Avalanche protection
- Efimov, M. K., 21.11–405
- Zalikhanov, M. Ch. et al., 21.9–332

Avalanche transport
- Severskiĭ, I. V., 21.5–636

Avalanche velocities
- Kumykov, Kh. K. et al., 21.9–330

Avalanches data, Europe
- Davos, Switzerland. Eidgenössisches Institut, 21.9–220R

Avalanches, Tatras
- Chomicz, K., 21.10–90R

Averaging errors
- Gzelnai, R., 21.10–25

Averaging observations
- Shenderovich, I. M., 21.3–40

Aviation climatology han book
- Narovlianskiĭ, G. Ia., 21. 58R

Aviation forecasting
- Bengtsson, L., 21.10–119
- Freeman, M. H., 21.12–1
- Konovalov, Iu. G., 21.7–
- Regula, H., 21.12–142
- Rubinshtein, M. V., 21. 116

Aviation forecasts
- Bengtsson, L., 21.10–10

Aviation meteorological quirements
- De Jong, H. M., 21.12–6
- International Air Tra port Association, 21.1 12
- Laplace, L., 21.12–16
- Lieurance, N. A., 21.5–

Aviation meteorological services
- Freeman, M. H., 21.12–1
- International Air Tra port Association, 21.1 12
- Kalinin, N. F., 21.3–18

Aviation meteorology
- Bedel, B. L., 21.12–4
- Buck, R. N., 21.11–4
- International Civil Av tion Organization, 21.1 13
- Kogan-Beletskiĭ, G. I. al., 21.3–586
- Konovalov, Iu. G., 21.7–
- Leblanc, G., 21.12–18

Aviation meteorology handbooks
- Great Britain. Royal Force, 21.7–3

Aviation meteorology sy posia
- International Civil Av tion Organization, 21. 12

Aviation safety
- Konovalov, Iu. G., 21.7–

Aviation weather
- Taniguchi, T., 21.10–76

Aviation weather service
- Lieurance, N. A., 21.5–

Azimuth deviations
- Reichert, A., 21.3–161

B

OMAP, *see* Barbados
ceanographic and Me-
orological Analysis Proj-
ct

OMEX, *see* Barbados
ceanographic and Me-
orological Experiment

acteria in river water
Evenshtein, Z. M., 21.4–579

ai-u forecasting
Takasugi, M. et al., 21.7–309

alance equation
Sitnikov, I. G. et al., 21.1–226

all lightning
Barry, J. D., 21.9–5R
Cade, C. M. et al., 21.8–623
Jennison, R. C., 21.8–644
Uman, M. A., 21.10–498

all lightning models
Dawson, G. A. et al., 21.8–643

all lightning theories
Lowke, J. J. et al., 21.8–645
Powell, J. R., 21.2–362

allistic wind
Crutcher, H. L. et al., 21.1–237
Goldman, J. L. et al., 21.3–255

alloon airglow investiga-
on
Evans, W. F. J. et al., 21.5–457

alloon ascension rates
Khalil, A. S. A., 21.7–38
Rider, L. J. et al., 21.6–520
Weiss, B. D., 21.3–135

alloon cosmic dust mea-
irements
Hodge, P. W. et al., 21.7–743

alloon cover quality
Sienkiewicz, Ryszard, 21.3–134

alloon design
Facilities for Atmospheric Research [Boulder, Colo.], 21.5–86

alloon experiments
Raven Industries, Inc., Sioux Falls, S.D., 21.12–61

Balloon fabrics research
Hauser Research and Engineering Co., Boulder, Colo., 21.3–130, –131

Balloon failure
Hauser Research and Engineering Co., Boulder, Colo., 21.3–130, –131

Balloon gamma ray detection
Sood, R. K., 21.9–483

Balloon icing
Lally, V. E. et al., 21.6–60
Morel, P., 21.5–87

Balloon infrared measurement
Murcray, D. G. et al., 21.10–666

Balloon instrumentation
Kreith, F., 21.10–57

Balloon investigation of auroral X-rays
Kangas, J., 21.7–372
Ogura, K. et al., 21.8–290

Balloon investigation of cosmic rays
Albernhe, F. et al., 21.10–289

Balloon investigation of polarization
Nagaraja Rao, C. R., 21.8–595

Balloon investigation of solar spectrum
Murcray, D. G. et al., 21.10–665, –666

Balloon investigation of twilight sky
Zacharov, I., 21.9–418

Balloon measurement of atmospheric composition
Ponzi, S., 21.12–120

Balloon measurement of gamma rays
Chapman, G. T., 21.2–162
Fichtel, C. E. et al., 21.5–696

Balloon performance
Facilities for Atmospheric Research [Boulder, Colo.], 21.5–86
Morel, P. et al., 21.3–133
Reininger, E., 21.6–62
Welt, R. M., 21.7–39

Balloon radiation observations
Chaney, L. W., 21.10–277
Murcray, D. G. et al., 21.6–360; 21.10–269

Balloon research
Facilities for Atmospheric Research [Boulder, Colo.], 21.5–88
Hirt, M. S. et al., 21.9–125
Slavin, R. M., 21.4–16

Balloon solar radiation measurement
Kondrat'ev, K. et al., 21.2–116

Balloon soundings
Beyers, N. J., 21.12–60
Slavin, R. M., 21.4–16

Balloon studies of upper air temperatures
Fourrier, J. et al., 21.6–453

Balloon technology
Slavin, R. M., 21.4–16

Balloon trajectories
Facilities for Atmospheric Research [Boulder, Colo.], 21.5–89
Morel, P. et al., 21.3–133

Balloon wind observation techniques
Rider, L. J. et al., 21.1–522

Balloon X-radiation measurements
Thomas, R. M. et al., 21.10–598

Balloon X-ray investigations
Cambou, F. et al., 21.6–401

Balloon X-ray measurements
Bleeker, J. A. M. et al., 21.5–461
Kasturi Rangan, K. et al., 21.9–480

Balloonborne hygrometers
Bisberg, A., 21.12–95

Balloonborne instrumentation
Ishikawa, H. et al., 21.10–56

Balloonborne interferometers
Chaney, L. W., 21.10–277

Balloonborne ozonesonde
Randhawa, J. S., 21.3–365

Balloonborne spectrometers
Schaper, P. W., 21.11–64
Balloons
Afanas'ev, G. T., 21.12–483
NCAR Quarterly [Boulder, Colo.], 21.9–198
Balloons program, Skyhook
Wilson, W. R., 21.12–31R
Balmer emission studies
Tinsley, B. A., 21.10–540
Barbados Oceanographic and Meteorological Analysis Project (BOMAP)
U. S. Environmental Science Services Administration, 21.8–10
Barbados Oceanographic and Meteorological Experiment (BOMEX)
Essa News [Rockville, Md.], 21.1–160; 21.2–771
Essa World [Rockville, Md.], 21.2–772
Fernandez-Partagas, J. J., 21.12–366
Franceschini, G. A., 21.2–773
Johnson, W. B. et al., 21.8–27
Kuettner, J. P., 21.3–20
Sealift [Wash., D. C.], 21.6–285
U. S. Environmental Science Services Administration, 21.8–10
Barley
Abashina, E. V., 21.3–513
Barley cultivation
Abashina, E. V. et al., 21.10–457
Luebs, R. E. et al., 21.8–679
Barley ecology
Fedoseev, A. R., 21.2–320
Kogan, F. N., 21.2–324
Baroclinic flow
Gilman, P. A., 21.5–397
Baroclinic forecasts
Fawcett, E. B., 21.3–231
Baroclinic instability
Egger, J., 21.5–395
Simons, T. J., 21.10–241
Stone, P. H., 21.6–316
Baroclinic layer of the sea
Bolgurtsev, B. N. et al., 21.2–734
Marchuk, G. I., 21.12–758
Baroclinic models
Danforth, W. L. et al., 21.1–218
Kwizak, M. et al., 21.5–166
Mancuso, R. L. et al., 21.3–69
Reiser, H., 21.5–172
Vekova, N., 21.1–230
Baroclinic stability
Stone, P. H., 21.11–226
Baroclinic vortices
Yanai, M. et al., 21.5–411
Baroclinic waves
Gilman, P. A., 21.5–397
Pedlosky, J., 21.6–314
Barographs
Sumner, C. J., 21.10–75
Barometer improvements
Rajagopala Rao, P., 21.11–88
Barometer manufacturers
Goodison, N., 21.1–4
Barometers
Court, A., 21.3–581
Rodewald, M., 21.2–27
Barometric coefficient in cosmic ray calculations
Briggs, R. M. et al., 21.7–398
Kaminer, N. S., 21.9–232
Barotropic atmosphere
Trosnikov, I. V., 21.5–366
Barotropic components of oceanic circulation
Sarkisian, A. S., 21.4–703
Barotropic flow
Clarke, R. A., 21.2–736
Janota, P., 21.6–294
Barotropic fluid flow
Blumen, W. et al., 21.5–370
Barotropic forecasting
Kostiukov, V. V. et al., 21.3–235
Shuman, F. G. et al., 21.8–100
Barotropic forecasting models
Besleaga, N. et al., 21.5–158
Döös, Bo R., 21.8–90
Galin, M. B. et al., 21
86
Gerrity, J. P., Jr. et
21.3–232
Grammeltvedt, A., 21
219
King, G. W., 21.11–111
Korb, G., 21.5–163
Rousseau, D., 21.6–135
Sanders, F., 21.3–266
Shuman, F. et al., 21.8–
Speich, J., 21.7–104
Barotropic instability
Lipps, F. B., 21.11–270
Nitta, T. et al., 21.3–4
21.4–97
Barotropic models
Boye, H. et al., 21.6–1
Fisher, G., 21.6–526
Wang, C. H., 21.1–231
Barotropic vorticity eq
tion
Baer, F., 21.3–457
Barrage studies
Nature [London], 21.4–
Base flow
Trainer, F. W., 21.7–79
Singh, K. P., 21.5–751
Bathymetric charts
Naugler, F. P., 21.1–727
New Zealand Ocea
graphic Institute, 2
694
Bathymetric surveys
Dietz, R. S. et al., 2
653
Bathythermographic d
processing
Van Vliet, C. J., 21.4–
Bathythermographs
Akamatsu, H. et al., 2
652
France. Meteorologie
tionale, Paris, M
MAR, Bulletin, 21.9–
Battelle Memorial Insti
Oceanic Citation Jou
[La Jolla, Calif.], 2
641
Bay disturbances
Rao, D. B., 21.4–237
Bay oceanography
Konstantinova, V.
21.11–788
Ludwigson, J. O., 21.4–

Bay water motion
Ludwigson, J. O., 21.4–788
Beach field studies
Harrison, W., 21.11–786
Beach microclimatology
Lesko, R., 21.11–305
Beach processes
Urban, H. D., 21.11–790
Beach sand movement
Urban, H. D., 21.11–790
Beacon satellites
Aarons, J., 21.8–44
Bead lightning
Minin, V. F., 21.12–587
Uman, M. A., 21.10–498
Bead thermistor
Arbuzova, V. N. et al., 21.5–112
Glagolev, Iu. A., 21.5–115
Beaufort scale
Kinsman, B., 21.3–44; 21.5–28
Belgian–Dutch Antarctic Expedition, 1964
Expédition Antarctique Belgo–Néerlandaise, 1964, 21.2–115
Belgian Institute of Space Aeronomy
Aerts, E., 21.5–1
Bénard cells
Davis, S. H., 21.1–541
Franz, H. W., 21.3–635
Hardy, K. R. et al., 21.1–542
Velte, W., 21.6–523
Benguela Current
Andrews, W. R. H., 21.6–843
Benzo(a)pyrene
Kertesz-Saringer, M. et al., 21.5–263
Thomas, J. F. et al., 21.6–186
Beryllium-7
Rangarajan, C., 21.12–333
Beryllium-7 in atmosphere
Hicks, B. B., 21.5–255
Beta radiation
Gibson, J. A. B. et al., 21.4–79
Beta radioactivity
Kennedy, W. R. et al., 21.3–404
Zier, M., 21.12–338
Beta radioactivity measurement techniques
Petrovic, P., 21.1–209
Beta radioactivity measurements
Hla, Pe. et al., 21.12–344
Reiter, R., 21.11–219
Tin, A. N., 21.11–107
Van Cauwenberghe, A. R. et al., 21.7–220
Beta ray ionization
Bizunov, V. P., 21.12–584
Bibliographic series
Ulbrich, Š., 21.1–79
Bibliography on architectural climatology
Griffiths, J. F., 21.1–47
Bibliography on climatic maps of Burma
Grimes, A. E., 21.5–661
Biennial circulation variations
Sleptsov-Shevievich, B. A., 21.2–90
Ugriumov, A. I., 21.1–386
Biennial cycles
Ugriumov, A. I., 21.1–386
Biennial stratospheric wind fluctuations
Bugaev, V. A. et al., 21.5–519
Biochemistry of seawater
Gupta, R. S., 21.4–684
Bioclimatic classification
Meher-Homj, V. M., 21.12–569
Padmanabhamurthy, B., 21.7–692
Bioclimatic research
Gandin, L. S., 21.11–447
Bioclimatology
Walter, H., 21.1–19
Bioclimatology conferences
Deschwanden, J. S. von et al., 21.8–538
Bioclimatology of Adriatic coast
Lesko, R. et al., 21.6–429
Bioclimatology of Black Sea coast
Lesko, R. et al., 21.6–429
Bioclimatology of Indo-Pakistan Subcontinent
Meher-Homj, V. M., 21.12–569
Bioclimatology research
Thams, J. C., 21.8–559
Biography of Elisha Kent Kane
Stanley, A., 21.2–682
Biography of F. Baur
Faust, H., 21.3–15
Biography of Floyd Melville Soule
Barnes, C. A., 21.9–148R
Biography of Georgiĭ Kazimirovich T.
Kapitsa, A. P., 21.9–150R
Biography of Harry Gravelius
Neubert, H. et al., 21.9–151R
Biography of Ivan Vladimir Figurovskiĭ
Tsutskeridze, Ia. A., 21.3–30
Biography of Marius Kaiser
Vering, F., 21.9–153R
Biography of Oscar Frölich
Georgi, J., 21.9–149R
Biography of P. A. Molchenov
Dolgin, I. M., 21.3–13
Biography of Sydney Chapman
Roach, F., 21.9–152R
Biography of Voltaire
Dufour L., 21.5–110
Biological effects of atmospheric pollution
Gol'dberg, M. S., 21.5–250
Bioluminescence in sea water
Verploegh, G., 21.2–705
Biometeorological conferences
Muller, W., 21.8–553
Nature [London], 21.7–691
Biometeorology
Deleanu, M., 21.4–382
Japanese Society of Biometeorology, 7th Meeting, Tokyo, 21.10–52R
Mukhamedova, S. Iu., 21.11–473
Sasinovich, L. M., 21.11–475
Tromp, Solco W., 21.7–695

Biometeorology textbooks
  Lowry, W. P., 682
Biosphere weather modification
  Cooper, C. F. et al., 21.4–32
Bird migrations
  Williamson, K., 21.1–81
Bjerknes circulation theorem
  Lebedev, V. L., 21.6–842
Blackbody chamber
  Karoli, A. R. et al., 21.8–235
Blackbody radiation
  Wells, M. B. et al., 21.2–6
Blackbody radiation law
  Chiu, W. C., 21.9–213
Blacklands Experimental Watershed
  Baird, R. W. et al., 21.10–679
Blizzards
  Irvine, S. G., 21.4–228
Blocking phenomena
  Kikuchi, Y., 21.5–425
Blocking situations
  Tauber, G. M., 21.7–279
Body heat loss
  Shpilevskiĭ, E. M., 21.9–379
Body heat regulation
  Afanas'eva, R. F. et al., 21.9–241
  Makarov, V. I. et al., 21.8–311
Bora
  Khalevitskiĭ, Z. Z., 21.10–341
  Masterkikh, M. A., 21.1–525
Boron in seawater
  Harriss, R. C., 21.4–683
  Schwarcz, H. P. et al., 21.4–687
Boron in surface waters
  Waggott, A., 21.7–810
Boron in the Sun
  Engvold, O., 21.11–625
Bottom current measurements
  Hara, H., 21.12–765
  Laird, N. P., 21.11–771
  Le Floch, J. et al., 21.1–742
  Syck, J. M., 21.12–767
Bottom currents
  Burkov, V. A., 21.4–716
  Gross, M. G., 21.6–844
  Hunkins, K. et al., 21.8–828
  McCoy, F. W., Jr., 21.1–743
Bottom effects on ocean waves
  Iwagaki, Y., 21.12–790, –791
  Kakinuma, T., 21.12–781
  Sandstrom, H., 21.9–745
Bottom water movement
  Sternberg, R. W., 21.9–724
Bottom water temperatures
  Broek, H. W., 21.9–732; 21.12–774
  Chung, Y. et al., 21.8–816
  Laird, N. P., 21.8–826
  Mesecar, R. S. et al., 21.7–847
  Ridgeway, N. M., 21.6–848
Boundary flow transition
  Soma, S., 21.7–469
  Thorpe, S. A., 21.10–217
Boundary layer
  Bakhshi, V. S., 21.11–166
Boundary layer equation
  Orlenko, L. R., 21.9–61R
Boundary layer flow
  Blackadar, A. K., 21.7–499
  Cadez, M., 21.1–358
  Cermak, J. E., 21.11–232; 21.12–355
  Deardorff, J. W., 21.1–359
  Gelci, R. et al., 21.6–276
  Lettau, H. H., 21.12–358
  Taylor, P. A., 21.12–360
  Walz, A., 21.5–503
  Wang, K., 21.8–610
Boundary layer height
  Hanna, S. R., 21.6–194
  Jarvis, E. C., 21.10–108
  Santomauro, L., 21.1–315
Boundary layer investigations
  Readings, C. J. et al., 21.10–330
Boundary layer models
  Arya, S. P. S. et al., 21.1–314
  Tsvetkova, T. N., 21.4–48
Boundary layer research
  Goddard, W. B., 21.11–99
Boundary layer stability
  Ruzin, M. I., 21.3–425
  Wippermann, F., 21.11–228
Boundary layer stratifications
  Vorontsov, P. A., 21.7–468
Boundary layer studies
  Benton, G. S., 21.2–769
Boundary layer temperatures
  Walz, A., 21.5–503
Boundary layer turbulence
  Armendariz, M. et al., 21.1–481
  Arya, S. P. S. et al., 21.1–314
  Fichtl, G. H. et al., 21.6–479; 21.8–330; 21.11–234
  Fortak, H., 21.11–235
  Hanna, S. R., 21.1–360
  Herbert, G. A. et al., 21.1–536
  Laikhtman, D. L. et al., 21.2–225
  Mollo-Christensen, Erik, 21.6–287
  Ruzin, M. I., 21.7–258
  Santomauro, L., 21.1–315
  Slade, D. H., 21.3–590
  Stewart, R. W., 21.11–240
  Tkachenko, A. V., 21.10–324
  Tsvetkova, T. N., 21.4–48
Boundary layer wind profiles
  Borisenko, M. M. et al., 21.4–221
  Fichtl, G. H. et al., 21.8–330
  Gerstmann, W., 21.10–337
  Hansen, F. V. et al., 21.5–484
  Pershina, R. A., 21.1–520
  Skliarov, V. M., 21.10–334
  Solokha, T. F., 21.1–523
  Swinbank, W. C., 21.10–338
  Tsvetkova, T. N., 21.4–48
Boundary layer winds
  Godev, N., 21.5–537
  Hanna, S. R., 21.1–360
  Hsueh, Y., 21.7–515
Boundary value problems
  Trosnikov, I. V., 21.5–366
Bow shock measurements
  Olbert, S., 21.7–379

Bow shock observations
Strong, I. B., 21.7–385
Bowen's theory
Dycus, R. D. et al., 21.1–603
Breaker height estimation
Daien, M., 21.10–835
Breakers
Divoky, D., 21.12–792
Brébeuf College Geophysical Observatory
Gherzi, E., 21.7–33
Brier Score
Glahn, H. R., 21.11–129
Brightness coefficient
Rachkulik, V. I. et al., 21.1–656
Brightness measurement errors
Dmitriev, A. A., 21.1–456
Brightness measurement techniques
Dmitriev, A. A., 21.1–456
Brightness measurements
Malkevich, M. S. et al., 21.6–364
Brightness of Earth's halo
Bellman, R. et al., 21.8–570
Brightness of Jupiter
Teĭfel', V. G., 21.10–631
Brightness temperature
Lapshin, V. I., 21.12–36
Roosen, J., 21.4–452
British weather hazards
Taylor, J. A., 21.8–674
Brownian movement
Voloshshuk, V. M. et al., 21.2–58; 21.5–302
Bubble gages
Robbins, W. D. et al., 21.10–688
Bubbles in ice
Kikuchi, K., 21.9–665
Bubbles in sea water
Medwin, H., 21.5–792
Buckwheat sowing
Ivanova-Zubkova, N. Z., 21.9–384
Building climatology
Adamenko, V. N., 21.7–687
Balalla, O. A., 21.5–468
Gerburt-Geibovich, A. A., 21.7–689
Roed, A. et al., 21.8–691
Building climatology symposia
Chandler, T. J., 21.2–336
Building construction
Roed, A. et al., 21.8–691
Building industry
Skoda, G., 21.3–28
Building–wind effects
Sokolev, S. D., 21.10–319
Bulgaria
Khristov, P. I., 21.2–195
Bulgarian Hydrometeorological Service
Stanchev, K., 21.7–8
Bumpiness
Vasil'ev, A. A., 21.7–478
Buoy deployment and maintenance
Northrop, G. M., 21.8–823
Buoy design
Brocks, K., 21.7–481
Buoy mooring
Neshyba, S. et al., 21.10–795
Buoy mounted oceanographic sensors
Dahl, O., 21.10–798
Buoy oceanographic stations
Adams, J. E., 21.3–779
Clem, L. H. et al., 21.10–19
Hodgman, J. A., 21.7–37
Kalvaitis, A. N., 21.6–834
Kvinge, T., 21.11–759
Morrill, P. A. et al., 21.10–84
Nesyba, S. et al., 21.10–795
Rinehart, V. W., 21.12–59
Buoy symposia
National Data Buoy Systems Scientific Advisory Meeting, 1st, New London, Conn., 1969, 21.9–41
Buoy system cost effectiveness
Jenkins, C. F. et al., 21.8–821
Buoy weather stations
Brian, M., 21.6–96
Clem, L. H. et al., 21.10–19
Hodgman, J. A., 21.7–37
Kalvaitis, A. N., 21.6–834
Morrill, P. A. et al., 21.10–84
Rinehart, V. W., 21.12–59
Buoys
Buoni, F., 21.11–62
NCAR Quarterly [Boulder, Colo.], 21.9–198
Warsh, K. L. et al., 21.10–794
Buster wind
Gentilli, J., 21.3–621
Butyphose effects on man
Mukhamedova, S. Iu., 21.11–473

C

CAT 2
Browning, K. A., 21.12–471
CICAR
Symposium on Investigations and Resources of the Caribbean Sea and Adjacent Regions, Willemstad, Curaçao, Nov. 18–26, 1968, 21.12–738
Cadmium in solar atmosphere
Hauge, Öivind, 21.10–664
Calcium carbonate in seawater
Kinsman, D. J. J. et al., 21.3–785
Li, Yuan-Hui et al., 21.7–843
Calcium–chlorine ratio
Sagi, T., 21.9–702
Calcium in seawater
Sagi, T., 21.9–702
Calms
Streten, N. A., 21.1–513
Canadian satellite, ISIS-A
Canadian Scientist [Toronto], 21.1–147
Canadian satellite, ISIS-1
Franklin, C. A. et al., 21.10–60
Canal flow
Wilson, K. V., 21.2–607
Canal seepage
Krishnamurthy, K. et al., 21.10–561
Cancer and weather
Krasnow, S., 21.10–462

Cap clouds
Auer, A. H., Jr., 21.10–89R
Capelinhos Volcano
Brochu, M., 21.2–623
Capillary movements in soil
Peck, A. J. et al., 21.5–142
Captive balloons
Gringorten, I. I., 21.1–233
Yokayama, O., 21.4–219
Carbon dioxide absorption
Houghton, J. T., 21.1–457
Carbon dioxide absorption bands
Drayson, S. R., 21.12–417
Carbon dioxide air–sea transfer
Akiyama, T., 21.5–219
Berger, R. et al., 21.1–277
Carbon dioxide effects on temperature
Houghton, J. T., 21.1–457
Carbon dioxide–global ecology effects
Peterson, E. K., 21.5–16
Carbon dioxide in Mars atmosphere
Davis, B. W., 21.8–745
Carbon dioxide in river water
Park, P. K. et al., 21.7–804
Carbon dioxide in seawater
Akiyama, T., 21.7–129
Kelley, J. J., Jr., 21.10–804
Miyake, Y. et al., 21.4–43
Wong, C. S., 21.12–749
Carbon dioxide in Venus
Gray, L. D., 21.12–601
Schorn, R. A. et al., 21.9–510
Carbon dioxide measurement
Stetter, G., 21.12–212
Carbon dioxide–plants effects
Johnson, P. L., 21.12–217
Carbon dioxide production
Clarke, J. F., 21.5–241
Carbon dioxide (CO_2) regime of vegetation
Menzhulin, G. V., 21.12–219
Carbon in seawater
Craig, H., 21.9–695
Deuser, W. G. et al., 21.1–734
Williams, P. M. et al., 21.4–672
Carbon monoxide exchange, ocean–atmosphere
Swinnerton, J. W., 21.12–224
Carbon monoxide in Mars atmosphere
Kaplan, L. D. et al., 21.10–615
Carbon monoxide in seawater
Swinnerton, J. W., 21.12–224
Carbon monoxide in upper atmosphere
Hesstvedt, E., 21.12–216
Carbon monoxide measurements
Walther, E. G., 21.12–121
Carbon suboxide
Plummer, W. T. et al., 21.5–708
Carbon-13 in seawater
Craig, H., 21.9–705
Cargo damage
Grundke, G., 21.6–653
Catalina Eddy
Kurtz, E., 21.2–774
Catch reduction
Jones, D. M. A., 21.3–35
Catchment basin runoff
Ronsch, H., 21.3–674
Catchment basin water balance
Hogstrom, U. et al., 21.5–559
Catchment elevation on runoff effects
Kiriliuk, M. I., 21.12–694
Catchment experimentation
Smith, K. et al., 21.8–777
Catchment hydrology
Piper, A. M., 21.2–568
Catchment models
Eagleson, P. S., 21.10–683
Cattle bioclimatology
Kamal, T. H., 21.11–469, –470
Schöbesch, O. et al., 21.10–468
Cattle raising
Ruiz Huidobro, O., 21.9–631
Cave ice
Alekseev, V. R., 21.12–724
Ceiling height forecasting
Rubinshteĭn, M. V., 21.10–110
Tkachenko, A. V. et al., 21.10–380, –381
Ceiling height variations
Emm, Z. G., 21.9–299
Celestial mechanics
Alfvén, H., 21.9–466
Cellular cloud formation
Lazareva, K. I. et al., 21.6–583
Cellular convection
Anthes, R. A., 21.5–528
Skuratova, I. S., 21.4–247; 21.6–522
Centers of action
Angell, J. K., 21.11–260
Bulinskaia, N. A., 21.1–375
Maksimov, I. V. et al., 21.10–242
Cereal cultivation
Derevianko, A. N., 21.2–318
Čerenkov radiation resonance
Vitlina, R. Z. et al., 21.7–327
Cesium-137
Rangarajan, C., 21.12–333
Cesium-137 environment contamination
Cupka, S. et al., 21.3–403
Cesium-137 fallout
Bryant, P. M., 21.3–399
Cesium-137 in seawater
Shirasawa, T. H., 21.1–731
Chaff wind measurements
Pakhomov, S. V., 21.11–93
Walczewski, J., 21.6–30
Chandrasekhar's theory
Clancy, B. E., 21.6–374
Channel flow
Komar, P. D., 21.2–727
Makkaveev, V. M., 21.2–604
Shaw, T. L., 21.10–563
Channel flow–bed roughness relationships
Makkaveev, V. M., 21.2–604
Charge exchange reactions
Ali, D. E., 21.4–380

Holzer, T. E. et al., 21.3–693

Charge generation
Magono, C., 21.9–439
Reiter, R., 21.10–492

Charge generation in thunderclouds
Takeuchi, T. et al., 21.9–432

Charge transfer
Montgomery, D. N. et al., 21.9–296
Strong, A. E., 21.2–356

Charged cloud particles
Vasilevskiĭ, L. S. et al., 21.5–54

Charged particle diffusion
Jennings, S. G., 21.12–476

Charged particle–magnetospheric interaction
Ogorodnikov, S. N., 21.7–378

Charged particle measurement
Ferguson, L. D. et al., 21.8–269
Nakagawa, S., 21.11–296

Charged particle motion in magnetic field
Birmingham, T. J. et al., 21.7–364
Nocentini, A., 21.2–150
Samokhin, M. V., 21.7–383
Sozou, C. et al., 21.2–152

Charged particle motion in magnetosphere
Willis, D. M., 21.2–157

Charged particle precipitation
Mishin, V. M. et al., 21.8–285

Charged particle research equipment
Berg, T. G. O., 21.12–539

Charged particles in electric field
Berg, T. G. O. et al., 21.7–542

Chemical analysis of air pollutants
Brar, S. S., 21.12–233
Kachmar, E. G. et al., 21.9–126
Saliamon, G. S., 21.5–281

Chemical analysis of water
Osipova, T. I. et al., 21.5–748

Chemical composition of atmosphere
Ronov, A. B., 21.2–717
Stevenson, C. M., 21.1–282

Chemical composition of atmospheric particles
Twomey, S., 21.1–569

Chemical composition of dust falls
Hoidale, G. B. et al., 21.1–296

Chemical composition of precipitation
Nucciotti, F. et al., 21.5–615

Chemical composition of rainwater
Stevenson, C. M., 21.1–282

Chemical composition of seawater
Ronov, A. B., 21.2–717

Chemical composition of snow
Voronkov, P. P., 21.9–94R

Chemical composition of water
Ceausescu, D., 21.5–747

Chemical oceanography
Sackett, W. M., 21.2–710

Chemical properties of reservoirs
Pavelko, I. M. et al., 21.2–572

Chemical properties of rivers
Semenov, A. D. et al., 21.2–573
Uryvaev, A. P., 21.2–574; 21.9–91R

Chemical properties of surface water
Lamar, W. L., 21.2–571

Chemical releases in upper atmosphere
Lloyd, K. H., 21.12–211
Wescott, E. M., 21.8–613

Chemiluminescent ozone measurements
Randhawa, J. S., 21.12–122

Chemistry of seawater
Cline, J. D. et al., 21.5–790
Gupta, R. S., 21.4–684
Harriss, R. C., 21.4–683
Knull, J. R., 21.1–733

Child bioclimatology
Meyer, H., 21.8–550

Chilling bioclimatology
Krasnow, S., 21.10–462

Chilling hours
Kish, A. J. et al., 21.10–45

Chinook effects
Ashwell, I. Y., 21.4–350

Chinook winds
Julian, L. T. et al., 21.2–230

Chloride content measurement
Davey, B. G., 21.3–704

Chloride ions
Rymaszewska, M., 21.3–405

Chlorine in marine atmosphere
Duce, R. A., 21.5–222

Chlorophyll in seawater
Anderson, G. C., 21.2–725
Hoshiai, T., 21.12–775

Chondrite composition
Garz, J., 21.11–661

Chromium in seawater
Fukai, R. et al., 21.9–688

Chromosphere–corona transition zone
Withbroe, G. L., 21.12–648

Chromospheric composition
Pecker, J. C. et al., 21.9–547

Chromospheric eruptions
Maris, G. et al., 21.10–657

Chromospheric flares
Slonim, Iu. M., 21.12–627
Stepanian, N. N., 21.12–628

Chromospheric investigations
Iudin, O. I., 21.12–632

Chromospheric models
Athay, R. G., 21.9–545
Dumont, S., 21.12–631

Chromospheric motions
Abdusamatov, H. I. et al., 21.10–646

Chromospheric mottles
Macris, C. J. et al., 21.10–662

Chromospheric oscillations

Jones, W. L., 21.12–633
Tanenbaum, A. S. et al., 21.7–768

Chromospheric spectra
Dumont, S., 21.12–631
Houtgast, J., 21.2–509
Jordan, S. D., 21.7–765
Zirin, H., 21.11–666

Chromospheric spicules
Iudin, O. I., 21.12–632

Chromospheric structure
Bappu, M. K., 21.1–706
Zirin, H., 21.11–666

Chromospheric studies
Bray, R. J., 21.5–718

Chromospheric surges
Rust, D. M., 21.2–473

Chromospheric temperature
Jordan, S. D., 21.7–765

Circulation centers, 700-mb
O'Connor, J. F., 21.3–434

Circulation–cloud amount relationships
Mashkovich, S. A., 21.7–578

Circulation index changes
Sharov, V., 21.3–437

Circulation indexes
Boiko, A. P. et al., 21.3–429
Huschke, R. E. et al., 21.5–400

Circulation modification
Geokhlanian, T. Kh., 21.3–345

Circulation patterns, 200-mb
Wooldridge, G. et al., 21.7–266

Circulation patterns, 500-mb
Hauser, W., 21.5–500

Circulation regime–precipitation relationships
Drozdov, O. A. et al., 21.7–262
Glukh, I. S., 21.9–199
Krueger, A. F. et al., 21.6–296

Circulation types
Dmitriev, A. A., 21.1–377
Tsuchiya, I., 21.9–409
Turketti, Z. L., 21.2–42

Circumpolar vortex stability
Miyakoda, K. et al., 21.6–297

Cirrus cloud anomalies
De Bruijn, P., 21.1–578

Cirrus cloud cover measurement
Evans, W. E., 21.7–576

Cirrus cloud formation
De Bruijn, P., 21.1–578

Cirrus clouds
Yagi, T., 21.7–571

Citrus crop
Jensen, M. E., 21.7–529

Classroom microclimatology
Geller, I. M. et al., 21.4–328

Clathrate hydrates
Miller, S. L., 21.10–772

Clear air radar echoes
Ottersten, H., 21.11–47

Clear air turbulence
Atlas, D., 21.10–78R
Balescu, O. I., 21.12–470
Duverge, P., 21.4–197
Glover, K. M. et al., 21.3–594
Hicks, J. J., 21.3–593
Jones, R. F., 21.7–476
Lomonosov, E. G., 21.4–198
London, M. P., 21.12–472
Long, R. R., 21.10–82R
Lunden, C. D. et al., 21.10–326
Mancuso, R. L. et al., 21.4–199
Roach, W. T., 21.1–486
Scorer, R. S., 21.10–84R
Vasil'ev, A. A., 21.7–479

Clear air turbulence analysis
Essenwanger, O., 21.4–192
Peskoff, A. et al., 21.10–327
Trout, D., 21.4–201
Vasil'ev, A. A., 21.7–478

Clear air turbulence, bibliography
Smith, Alvin L., Jr., 21.9–139R

Clear air turbulence conferences
Symposium on Clear Air Turbulence and its Detection, Seattle, Wash., 1968, 21.10–328

Clear air turbulence detection
Astheimer, R. W., 21.8–331

Clear air turbulence for aircraft
Jones, R. F., 21.7–476

Clear air turbulence forecasting
Blackburn, J. H., 21.10–325
Dutton, J. A., 21.9–257
Duverge, P., 21.4–197
Jayaraman, S., 21.7–475

Clear air turbulence frequencies
Blackburn, J. H., 21.10–325

Clear air turbulence investigations
Spillane, K. T., 21.6–481

Clear air turbulence measurement techniques
Peskoff, A. et al., 21.10–327

Clear air turbulence measurements
Prophet, D. T., 21.12–473

Clear air turbulence studies
Blackburn, J. H., 21.10–325
Dutton, J. A., 21.9–257

Clear air turbulence synoptic conditions
Roach, W. T., 21.1–486

Clear air turbulence theories
Bretherton, F. P., 21.10–221
Faller, A. J., 21.7–473

Clear air turbulence–upper air temperature relationships
Vasil'ev, A. A., 21.12–474
Waco, D. E., 21.11–336

Clear air turbulence–wind shear relationships
Vasil'ev, A. A., 21.12–474
Waco, D. E., 21.11–336

Climate and agriculture
Fukui, E., 21.8–540
Pătăchie, I., 21.7–693

Climate and building design
Gerburt-Geĭbovich, A. A., 21.7–689
Climate and cotton culture
Khershkovich, E., 21.3–128
Climate and crop yield
Dmitrenko, V. P., 21.12–568
Kulik, M. S., 21.11–472
Climate and health
Loeffler, W., 21.8–549
Meyer, H., 21.8–550
Thams, J. C., 21.8–559
Climate and human activity
Panzram, H., 21.11–460
Climate and man
Battan, L. J., 21.6–634
Claiborne, R., 21.10–440
Nature [London], 21.7–691
Pinna, M., 21.6–646
Silverberg, R., 21.5–663
Climate and plant diseases
Berbecel, O. et al., 21.8–533
Woodhead, T., 21.4–331
Climate and skin diseases
Brenn, H. et al., 21.8–535
Chlebarov, St., 21.8–536
Popchristov, P. et al., 21.8–556
Climate and tree growth
Gindel, I., 21.4–341
Jungerius, P. D., 21.9–373
Pita Carpenter, A., 21.1–43
Sharpe, D. McC., 21.9–394
Villeneuve, G. O., 21.12–58
Climate and vegetation
Bryson, R. A. et al., 21.5–771
Climate and vegetation zones
Johnson, M., 21.2–323
Ouellet, C. E., 21.8–555
Climate–animal physiology effects
Kamal, T. H., 21.11–469, –470
Climate–barley effects
Abashina, E. V. et al., 21.10–457
Climate bibliography, Central America
Creasi, V. J., 21.4–311
Climate bibliography, India
Boyer, D. L. et al., 21.4–321
Climate bibliography, Thailand
Smith, A. L., Jr., 21.4–316
Climate–cargo damage effects
Six, H., 21.7–681
Climate changes
Lee, G. F. et al., 21.10–678
Climate–coconut production effects
Sekiguti, T., 21.9–393
Climate–coffee trees effects
Nutman, F. J. et al., 21.10–465
Climate control
Fletcher, J. O., 21.4–33
Climate–corn effects
Berbecel, O. et al., 21.9–383
Rogojan, I. et al., 21.10–467
Thompson, L. M., 21.9–399
Climate–crops effects
Wangati, F. J., 21.9–403
Climate data for Hamburg
Reidat, R., 21.7–666
Climate effects on cattle
Kamal, T. H., 21.11–470
Climate fallout effects
Trefry, G. et al., 21.3–408
Climate–forest productivity effects
Ved', I. P., 21.9–401
Climate forming processes
Manabe, S. et al., 21.2–333
Climate–freight car temperature effects
Piehl, H. D., 21.6–431
Climate–fruit effects
Rogojan, I. et al., 21.10–467
Climate geomorphology
Grove, A. T., 21.4–325
Climate–grain harvesting effects
Lubnin, M. G. et al., 21.9–385
Climate–groundwater effects
Leflat, O. N., 21.6–769
Climate hygiene effects
Comes, V. et al., 21.4–340
Climate modification
Perrin De Brichambaut, Ch., 21.11–134
Climate of Africa
Lebedev, Al. N., 21.9–52R
Climate of Antarctic oases
Solopov, A. V., 21.11–27R
Climate of Asia
U. S. Air Weather Service, 21.10–447
Climate of Australia
Australia. Bureau of Census and Statistics, 21.11–452
Gentilli, J., 21.10–114R
Climate of Bâle-Mulhouse Airport, France
Tasson, A. et al., 21.4–317
Climate of Benelux, bibliography
Boyer, D. L., 21.9–128R
Climate of Brittany
Lariviere, G. et al., 21.3–679
Climate of Cape Verde Islands
Valente, N., 21.7–664
Climate of Ceylon
Domros, M., 21.4–313
Climate of Ceylon, bibliography
Grimes, A. E., 21.9–130R
Climate of Chaco Region, Argentina
Galmarini, A. G. et al., 21.8–508
Climate of China
Watts, I. E. M., 21.8–512
Climate of Colorado River Valley
Jáuregui O., E., 21.6–637
Climate of Far East
U. S. Air Weather Service, 21.10–447
Climate of Finland
Finland. Ilmatieteen Laitos, 21.11–67R
Climate of Florida
Federal–State Agricultural Weather Service, Lakeland, Fla., 21.2–1

Climate of Haifa, Israel
Ashbel, D., 21.11–449
Climate of Haut-Vivarais, France
Paul, P., 21.8–509
Climate of Hudson Bay
Thompson, H. A., 21.4–318
Climate of Hule Valley, Israel
Ashbel, D., 21.11–450
Climate of Hungary
Bell, B., 21.11–479
Climate of Indonesia
Sukanto, M., 21.8–510
Climate of Jiu Basin
Ţepeş, E., 21.6–639
Climate of Kinnereth Valley, Israel
Ashbel, D., 21.11–451
Climate of Korea
Watts, I. E. M., 21.8–512
Climate of Lake Hartwell area, Georgia
Landers, H. et al., 21.4–314
Climate of Lake Hartwell area, South Carolina
Landers, H. et al., 21.4–314
Climate of Laos
U. S. Air Weather Service. 1st Weather Wing, 21.7–663
Climate of Laos, bibliography
Grimes, A. E., 21.9–131R
Climate of Mediterranean Region
Heurtier, R., 21.11–453
Climate of Molesworth, New Zealand
Coulter, J. D., 21.9–368
Climate of New Mexico, United States
Tuan, Y. F. et al., 21.8–511
Climate of Pacific Ocean
U. S. Air Weather Service, 21.10–447
Climate of Sofia
Angelov, A. et al., 21.4–310
Climate of South Carolina
Landers, H., 21.10–443
Climate of Sweden
Ångstrom, A., 21.8–505
Climate of Taiwan
Watts, I. E. M., 21.8–512
Climate of Tanquary Fiord, Northwest Territories, Canada
Jackson, C. I., 21.11–58
Climate of Ticino, Switzerland
Pedrazzini, A., 21.7–662
Climate of Trenčianské Teplice
Petrovic, Š., 21.6–638
Climate of Union of Soviet Socialist Republics
Alisov, B. P., 21.11–448
Climate of Upper Jordan River area, Israel
Ashbel, D., 21.11–450
Climate of Velay, France
Paul, P., 21.8–509
Climate of Vienna
Fischer, L., 21.11–65R
Climate of Vietnam
U. S. Air Weather Service, 21.10–446
Climate of Vietnam, bibliography
Grimes, A. E., 21.9–132R
Climate of Wadi as Sobha. Saudi Arabia
Uhlig, D., 21.1–660
Climate of Western Europe
Heurtier, R., 21.11–453
Climate of Wyoming, United States
Wyoming. Natural Resource Board, Cheyenne, 21.4–319
Climate of Zambia
Zambia. Dept. of Meteorology, 21.4–320
Climate, Pacific Northwest
Highsmith, R. M., Jr. (ed.), 21.11–456
Climate–plant diseases effects
Nutman, F. J. et al., 21.10–465
Climate–potatoes effects
Polevoi, A. N., 21.10–466
Climate–rheumatism effects
Fellmann, N., 21.8–539
Climate–sugar beets effects
Kontorshchikova, O. M., 21.10–464
Climate–tea effects
Carr, M. K. V., 21.9–352
Climate–tree growth effects
Godman, R. M., 21.11–304
Rudakov, V. E., 21.9–392
Socor, E. et al., 21.9–397
Climate variations
Svensson, H., 21.4–327
Climate–wheat effects
Thompson, L. M., 21.9–400
Climate–wheat rust effects
Hogg, W. H. et al., 21.8–545
Climates of Northern and Eastern Asia
Arakawa, H. (ed.), 21.8–506
Climatic and crop yield
Dmitrenko, V. P., 21.2–319
Climatic atlas, bibliography
Hacia, H., 21.11–49R
Climatic atlas of Brazil
Brazil. Escritório de Meteorologia, 21.6–643
Climatic boundaries
Fukui, E., 21.8–502
Climatic chamber observations
Afanas'eva, R. F. et al., 21.4–416
Climatic change effects on animal distribution
Eisentraut, M., 21.11–457
Climatic change research
Drozdov, O. A., 21.9–21R
Climatic change theories
Budyko, M. I., 21.10–261; 21.12–562, –3R
Sergin, V. Ia. et al., 21.8–524
Silverberg, R., 21.5–663
Climatic changes
Barry, R. G., 21.1–611
Blake, I., 21.7–671
Borisov, P. M., 21.1–662
Bryson, R. A., 21.11–89R
Budyko, M. I., 21.4–323; 21.9–16R
Davis, M. B., 21.4–324
Ehlers, E., 21.10–452
Galmarini, A. G. et al., 21.8–522
Grove, A. T., 21.4–325
Horai, Ki-Iti, 21.4–326

Kendall, R. L., 21.6–648
MacDonald, G. J. F., 21.11–152
Sapozhnikova, S. A., 21.11–458
Silverberg, R., 21.5–663
Vedenskaia, I. E., 21.7–673

Climatic charts for Northern Hemisphere
Scherhag, R. et al., 21.8–518

Climatic classification
Galmarini, A. G. et al., 21.8–342, –508
Pita Carpenter, A., 21.1–43
Suarez S., J. et al., 21.8–529

Climatic classification of China
Watts, I. E. M., 21.8–512

Climatic classification of San Juan del Rio Valley, Mexico
Soto Mora, A., 21.7–683

Climatic classification schemes
Nemcova, B. et al., 21.4–337

Climatic cycles
Goodridge, J. D., 21.2–299
Schönwiese, C., 21.2–302

Climatic data
Harlin, B. W., 21.2–289, –290
Kish, A. J., 21.2–291
Landers, H., 21.2–292
Schuepp, M., 21.3–545
U. S. Air Weather Service, 21.2–294
U. S. Naval Weather Service, 21.1–661

Climatic data analogies
Schönwiese, C. D., 21.6–645

Climatic data analysis
Schönwiese, C., 21.2–302
Sneyers, R., 21.9–374

Climatic data for Alpine Region, Norway
Dannevig, P., 21.8–513

Climatic data for Antarctica
Australian National Antarctic Research Expeditions, 21.10–106R
U. S. Environmental Data Service, 21.10–112R

Climatic data for Baja California, Mexico
Hastings, J. R. et al., 21.6–640

Climatic data for Brazil
Brazil. Escritório de Meteorologia, 21.7–665

Climatic data for Canadian Arctic, American Arctic Sector
Annuaire du Canada [Ottawa], 21.9–369

Climatic data for Ethiopia
Fantoli, A., 21.10–440

Climatic data for Greece
Greece. Ethnikon Asteroskopeion, Athens, 21.9–204R

Climatic data for Iceland
Iceland. Vedurstofan, 21.9–206R

Climatic data for Isère Department, France
Jail, M. et al., 21.9–371

Climatic data for Istanbul
Turkey. Istanbul Kandilli Rasathane, 21.11–57

Climatic data for Japan
Japan. Meteorological Agency, Tokyo, 21.10–101R

Climatic data for Karlov Observatory, Prague, Czechoslovakia
Dvorakova, A., 21.8–514

Climatic data for Libya
Fantoli, A., 21.10–440

Climatic data for Macao
Macao. Serviço Meteorológico, 21.10–105R

Climatic data for Netherlands
Netherlands, Meteorologisch Instituut, 21.10–449, –450

Climatic data for Pacific States, United States
U. S. Pacific Northwest River Basins Commission, 21.8–516

Climatic data for Quetico–Superior Wilderness Research Center, Minnesota
Ahlgren, C. E., 21.9–372

Climatic data for Salt Lake County, Utah
Hely, A. G. et al., 21.8–515

Climatic data for Sinaloa, Mexico
Hastings, J. R. et al., 21.6–641

Climatic data for Sonora, Mexico
Hastings, J. R. et al., 21.6–641

Climatic data for South American airfield
U. S. Air Weather Service, 21.10–100R

Climatic data for Southeast Asia airfield
U. S. Air Weather Ser- 21.10–100R

Climatic data for Vienna area, Austria
Roller, M., 21.6–59

Climatic data for Wyoming, United States
Wyoming, Univ., Laramie. Water Resources Inst., 21.8–517

Climatic data processing
Pokrovskaia, T. V., 21.10–39R
Sumner, E. J., 21.10–98

Climatic data reduction
Junghans, H., 21.4–322

Climatic data sources, U.S.A.
U. S. Environmental Data Service, 21.9–142R

Climatic determinism
Blake, I., 21.7–671
Ehlers, E., 21.10–452
Kendall, R. L., 21.6–648
Nye, J. F., 21.8–519

Climatic effects
Chaumont, M., 21.4–309

Climatic effects on agriculture
Van Eimern, J., 21.7–696

Climatic effects on barley
Fedoseev, A. P., 21.2–320
Grushka, I. G., 21.2–321, –322
Kogan, F. N., 21.2–324
Pasov, V. M., 21.12–168

Climatic effects on cereals
Derevianko, A. N., 21.2–318
Climatic effects on corn
Pătăchie, I., 21.6–657
Climatic effects on crops
Dilkov, D., 21.7–650
Kulik, M. S., 21.7–106
Climatic effects on evaporation
Louw, W. J. et al., 21.5–563
Climatic effects on fruit
Hoffmann, K., 21.4–342
Climatic effects on glaciers
Baidal, M. Kh., 21.12–561
Klemsdal, T., 21.11–744
Climatic effects on man
Adamenko, V. N., 21.7–687
Katayma, K., 21.6–655
Landsberg, H. E., 21.2–184
Matusov, A. L., 21.7–661
Tromp, S. W., 21.7–695
Climatic effects on plants
Muturi, S. N., 21.10–463
Rusu, F., 21.7–694
Climatic effects on plastics
Khodakova, V. P., 21.4–345
Climatic effects on potato yield
Stepanov, N. D., 21.12–178
Climatic effects on soil
Outcalt, S. I., 21.7–458
Climatic effects on textile industry
Israel, H. et al., 21.2–350
Climatic effects on tuberculosis
Gartmann, J., 21.8–541
Climatic effects on vineyards
Primault, B., 21.6–659
Climatic effects on wheat
Iaroshevskiĭ, V. A. et al., 21.4–343
Konstantinov, A. R. et al., 21.2–325
Miha, J., 21.8–551
Ponomarev, B. P. et al., 21.6–146
Climatic effects on winter wheat
Grushka, I. G., 21.12–159
Climatic extremes
Daniels, G. E., 21.5–666
Climatic factors in fruit growing
Lawrynowicz, R., 21.2–19
Climatic fluctuations
Hosking, K. J., 21.9–375
Climatic geomorphology
Stoddart, D. R., 21.1–659
Climatic indexes
Sŭbev, L. et al., 21.6–644
Climatic influences on geomorphology
Büdel, J., 21.10–451
Dolgushin, I. Iu., 21.2–297
Ehlers, E., 21.10–452
Stoddart, D. R., 21.1–659
Vedenskaia, I. E., 21.7–673
Climatic mapping
Nemcova, B. et al., 21.4–337
Climatic maps of Cambodia
Grimes, A. E., 21.2–295
Climatic nomograms
Sŭbev, L. et al., 21.6–644
Climatic normals
Brazil. Escritório de Meteorologia, 21.7–665
Netherlands. Meteorologisch Instituut, 21.10–449
Ouellet, C. E., 21.8–555
Climatic orographic effects
Holmes, R. M., 21.4–349
Climatic periodic recurrences
Dzerdzeevskiĭ, B. L., 21.5–664
Climatic periodicities
Iakovleva, N. I., 21.9–376
Parmuzina, T. A., 21.2–300
Schönwiese, C. D., 21.2–302; 21.6–645
Climatic probabilities
Wachter, H., 21.6–636
Climatic records, Shetland
Irvine, S. G., 21.11–90R
Climatic regions
Yoshino, M., 21.8–503, –504
Climatic singularities
Namias, J., 21.2–339
Climatic statistics
Sneyers, R., 21.9–19
Climatic studies
Bryson, R. A. et al., 21.5–771
Climatic summaries
U. S. Air Weather Service, 21.5–660
Climatic surveys
Hurry, D. G. W., 21.3–112
Climatic trend analysis
Lamb, H. H., 21.7–670
Climatic trends
Hamilton, W. L., 21.10–408
Hurley, C. W., Jr., 21.7–436
Polozova, L. G. et al., 21.5–475
Climatic types
Fukui, E., 21.8–502
Climatic variability
Duplessy, J. C., 21.11–461
Iakovleva, N. I., 21.9–376
Kikuchihara, H., 21.7–668
Sneyers, R., 21.9–374
Climatic variations, forecasting
Damiean, G., 21.12–125
Climatic variations–glaciers effects
Nye, J. F., 21.8–519
Climatic variations in B.P. years
Duplessy, J. C., 21.11–461
Climatic zonation
Iakovleva, N. I., 21.10–100
Climatic zones
Matusov, A. L., 21.7–661
Climatological cartography
Rubinshtein, E. S., 21.9–70R
Schmidt, G., 21.2–296
Climatological data
Crosby, F. L., 21.11–454
Climatological data for Belgium
Belgium. Institut Royal Meteorologique, 21.9–195R, –196R
Climatological data for Brazil
Sao Paulo, Brazil (City). Observatorio, 21.10–119R
Climatological data for Canadian Arctic
Canada. Meteorological Branch, 21.9–224R

Climatological data for Colombia
Colombia. Dirección de Planeamiento, 21.10–120R, –121R
Climatological data for Finland
Finland. Ilmatieteen Laitos, 21.9–199R, –200R
Climatological data for French Polynesia
French Polynesia. Service de la Météorologie, 21.10–115R, –116R
Climatological data for Italy
Gazzola, A., 21.9–207R
Climatological data for Poland
Poland. Pánstwowy Instytut Hydrologiczny–Meteorologiczny, 21.9–211R, –212R
Climatological data for Rumania
Rumania. Institutul Meteorologic, Bucharest, 21.9–214R, –215R
Climatological data for South Carolina
Kish, A. J., 21.10–441, –442
Climatological data for Spain
Spain. Servicio Meteorológico Nacional, 21.9–218R, –219R
Climatological data for U.S.A.
U. S. Air Weather Service, 21.9–230R to 233R
Climatological forecasting
Dzerdzeevskiĭ, B. L., 21.5–664
Lamb, H. H., 21.7–670
Sapozhnikova, S. A., 21.11–458
Climatological normals
Netherlands. Meteorologisch Instituut, 21.10–450
Climatological research
Leighly, J., 21.2–285
Orlova, V. V., 21.9–62R
Rakipova, L. R., 21.9–67R
Weischet, W., 21.3–675
Climatological summaries
Singapore. Meteorological Service, 21.11–455
Climatological summaries for Ohio
Miller, M. E., 21.10–445
Climatological symposia
Battan, L. J., 21.6–634
Climatological yearbooks
Congo (Republique Democratique du Congo), 21.9–36
Climatology
Court, A., 21.2–283
Hare, F. K., 21.2–284
Piehl, H. D., 21.10–395
Scultetus, H. R., 21.1–16
White, T. E., 21.8–560
Climatology abstracts
Ulbrich, S., 21.1–79
Climatology bibliographies
Ulbrich, S., 21.1–79
Climatology definitions
Okolowicz, W., 21.5–657
Climatology manuals
Kessler, A., 21.9–366
Climatology of Baffin Island
Barry, R. G. et al., 21.4–308
Climatology of Southeast Asia
Crutcher, H. L. et al., 21.4–312
Climatology of Thailand
Crutcher, H. L. et al., 21.4–312
Climatology of U.S.S.R.
Orlova, V. V., 21.9–62R
Climatology textbooks
Alisov, B. P., 21.11–448
Jensen, J. P., 21.9–7
Neuberger, H. et al., 21.8–501
Climatology, world survey
Arakawa, H. (ed.), 21.8–506
Climatotherapy
Berry, P. R., 21.8–534
Brenn, H. et al., 21.8–535
Chlebarov, St., 21.8–536
Deschwanden, J. S. von et al., 21.8–538
Fellmann, N., 21.8–539
Halhuber, M. J., 21.8–543
Hentschel, G., 21.5–671
Hochli, M., 21.8–544
Loeffler, W., 21.8–549
Meyer, H., 21.8–550
Moerikofer, W., 21.8–552
Popchristov, P. et al., 21.8–556
Reiter, R., 21.7–685
Schmidt-Kessen, W., 21.8–557
Thams, J. C., 21.8–559
Zuidema, P., 21.8–561
Clothing insulation
Afanas'eva, R. F. et al., 21.4–416
Cloud–air currents relationships
Anekeeva, L. A., 21.3–253
Cloud albedo
Danielson, R. E., 21.3–504
Korobev, M. G. et al., 21.1–444
Cloud atlases
Kornfield, J. et al., 21.7–577
Cloud band formation
Conover, J. H., 21.4–274
Horst, W., 21.11–225
Cloud bands
Conover, J. H., 21.4–274
Tries, P., 21.9–297
Vel'tishchev, N. F. et al., 21.7–574
Cloud brightness
Chapurskiĭ, L. I., 21.11–9R
Rozenberg, G. V., 21.12–580
Cloud condensation nuclei
Buĭkov, M. V., 21.10–372
Radke, L. F., 21.12–518
Cloud cover
Kornfield, J. et al., 21.7–577
Cloud cover maps
Canada. Meteorological Branch, 21.1–598
Cloud data analysis
Brown, S. C., 21.7–575
Kostinskaia, B. I., 21.1–599
Cloud detection
Łukomski, H., 21.7–561
Cloud development
Zaboltskaia, T. N. et al., 21.10–378

Cloud distribution
  Atlas, R. A., 21.5–602
  Huschke, R. E., 21.9–298
  Stamm, A. J., 21.11–379
Cloud drop growth
  Bartlett, J. T., 21.1–580
  Buĭkov, M. V., 21.10–372
  Davis, M. H. et al., 21.9–293
  Kabanov, A. S., 21.12–500
  Kornfeld, P., 21.7–546
  Kovetz, A. et al., 21.4–286
  Latham, J., 21.1–561; 21.9–294
  Olson, G. L., 21.1–591
  Podzimek, J., 21.12–517
  Shafrir, U., 21.6–587
  Srivastava, R. G., 21.1–593
  Temkin, S., 21.1–594
Cloud droplet
  Montgomery, D. N. et al., 21.9–296
Cloud droplet coagulation
  Smirnov, V. I., 21.7–549
Cloud droplet coalescence
  Anderson, F. J., 21.7–541
Cloud droplet collectors
  Ohta, S., 21.12–99
Cloud droplet collision
  Olson, G. L., 21.1–591
  Temkin, S., 21.1–594
Cloud droplet collision efficiency
  Shafrir, U., 21.6–587
Cloud droplet formation
  Aleksandrov, E. L., 21.12–527
  Buĭkov, M. V., 21.12–494
  Uchida, E., 21.7–569
Cloud droplet photography
  Cannon, T. W., 21.6–581
Cloud droplet size
  Laktionov, A. G. et al., 21.7–554
Cloud droplet size distribution
  Das, P., 21.10–382
  Kabanov, A. S., 21.12–500
  Warner, J., 21.4–277, –278
Cloud droplet size measurements
  Knollenberg, R. G., 21.6–87
  Sasyo, Y., 21.7–53
Cloud droplet spectra
  Mazin, I. P. et al., 21.6–585
  Sedunov, Iu. S., 21.4–275
  Vasil'eva, K. I., 21.12–530
  Warner, J., 21.4–277
Cloud droplets
  Dufour, L., 21.9–284
Cloud effects on radiation
  Ashcheulov, S. V., 21.10–6R
  Gaevskaia, G. N., 21.10–14R
  Mullamaa, Iu. A. R., 21.12–419
  Pyldmaa, V. K., 21.1–439
  Witte, H. J., 21.1–453
Cloud effects on radiation flux
  Gasvskaia, G. N., 21.2–109
Cloud effects on radio waves
  Gebbie, H. A., 21.12–489
Cloud forecasting
  Jarvis, E. C., 21.10–108
  U. S. Air Weather Service, 21.7–91
Cloud formation
  Aleksandrov, E. L., 21.12–527
  Mészáros, E., 21.6–560
  Vasil'eva, K. I., 21.12–530
  Volkovitskiĭ, O. A., 21.1–565
Cloud forms
  Leary, T. R., 21.7–573
  Novozhilov, N. I., 21.1–597
Cloud frequencies
  Atlas, R. A., 21.5–602
Cloud glaciation
  Mossop, S. C., 21.12–505
Cloud height calculation
  Dmitrieva-Arrago, L. R. et al., 21.7–580
Cloud height estimation
  Deshpande, D. V., 21.8–369
  Whitehead, V. S. et al., 21.7–582
Cloud height estimation from satellites
  Koprova, L. I., 21.7–581
Cloud height measurement bibliography
  Grimes, A. E., 21.9–133R
Cloud humidities
  Tebo, A. R., 21.6–588
Cloud identification and measurements
  Renick, J. H. et al., 21.10–28
Cloud layers
  Petrova, L. V. et al., 21.3–512
Cloud mass–precipitation zone relationships
  Dombkovskaia, E. P., 21.2–255
Cloud microstructure
  Ivanova, E. T., 21.7–566
  Mossop, S. C., 21.12–505
  Vasil'eva, K. I., 21.12–530
Cloud models
  Ivanova, E. T., 21.7–566
  Kalazhokov, Kh. Kh., 21.11–44
  Volkovitskiĭ, O. A., 21.7–570
Cloud modification
  Edwards, G. R. et al., 21.7–543
  Gaivoronskiĭ, I. I., 21.3–298
  Low, R. D. H., 21.8–356
  Van Valin, C. C. et al., 21.8–122
Cloud motion vectors
  Serebreny, S. M. et al., 21.3–74
Cloud movement
  Novozhilov, N. I., 21.1–597
Cloud movement determination
  Fujita, T., 21.6–578
  Izawa, T., 21.7–583
Cloud movement observations
  Chang, C. P., 21.6–592
Cloud movement–upper air wind relationships
  Izawa, T., 21.7–583
Cloud–night airglow relationships
  Warnecke, G. et al., 21.5–458
Cloud nuclei
  Blanchard, D. C., 21.6–567
  Dinger, J. E., 21.11–371
  Loucks, R. H., 21.12–245

Twomey, S., 21.1–568, –569; 21.10–366

Cloud observation techniques
Tiabotov, A. E. et al., 21.7–560

Cloud observations from aircraft
Asai, T., 21.1–577

Cloud pattern development
Brodrick, H. J., Jr., 21.1–400

Cloud patterns
U. S. Air Force. Cambridge Research Labs., 21.7–562

Cloud photogrammetry
Renick, J. H. et al., 21.10–28

Cloud photograph
U. S. Air Force. Cambridge Research Labs., 21.7–562

Cloud physics
Berg, T. G. O., 21.5–199
Buĭkov, M. V., 21.10–372; 21.12–494
Deirmendjian, D., 21.5–715
Dessens, H., 21.5–204
Gaivoronskiĭ, I. I. et al., 21.7–119; 21.12–186
Kessler, Edwin, 21.6–532
Kohl, D. A., 21.12–528
Levin, L. M. et al., 21.7–116
Lilly, D. K., 21.1–350
Morachevskiĭ, V. G. et al., 21.6–613
Sartor, J. D., 21.4–376; 21.6–563
Saunders, C. P. R., 21.7–628
Sinclair, P. C., 21.7–638
Sulakvelidze, G. K., 21.7–125

Cloud physics conferences
International Conference on Condensation and Ice Nuclei, 21.12–499

Cloud physics experiments
Latham, J., 21.7–567
Volkovitskiĭ, O. A., 21.1–565; 21.7–570

Cloud physics research
Battan, L. J., 21.9–292
Bergeron, T., 21.8–367
Borovikov, A. M., 21.6–580
Jonas, P. R., 21.5–597
Neumann, J. et al., 21.8–127
Selezneva, E. S., 21.9–74R
Shishkin, N. S., 21.9–79R

Cloud physics studies
Bartlett, J. T., 21.1–580
Hobbs, P. V., 21.4–264
Kabanov, A. S., 21.12–500
Koo, C. C. et al., 21.1–10
Podzimek, J., 21.12–517
Sartor, J. D., 21.12–529
Smith, A., Jr., 21.1–564
Vergez, M., 21.10–376

Cloud pictures
Booth, A. L. et al., 21.5–52

Cloud–precipitation relationships
Diem, M., 21.6–601
Liu, J. Y. et al., 21.1–587
Roy, A. K., 21.7–590

Cloud radiation effects
Franceschini, G. A., 21.3–496
Reiman, R. L., 21.7–322
Reiter, R., 21.7–323
Rieker, T., 21.5–455

Cloud seeding
Australia. Commonwealth Scientific and Industrial Research Organization, 21.2–49
California. Dept. of Water Resources, 21.5–201
Ershova, N. G., 21.6–156
Gaivoronskiĭ, I. I., 21.12–186
Goyer, G. G., 21.11–138
Greenfield, S. M., 21.8–121
Kahan, A. M. et al., 21.1–268
Podzimek, J., 21.12–517
Steele, R. L., 21.11–141
Tribus, M., 21.11–135
Walser, J. T., 21.11–142
Willis, P. T., 21.10–146

Cloud seeding conferences
Skywater Conference, 1st, Denver, July 10–12, 1967, 21.4–266
Skywater Conference, 3rd Denver, Colo., Feb. 1968, 21.11–132
Skywater Conference, 5th, Denver, Colo., Feb. 1969, 21.5–211

Cloud seeding effectiveness
Auer, A. H., Jr., 21.11–143
Berg, T. G. O., 21.12–188
Cermak, J. E., 21.12–189
Giharev, A. S., 21.12–191
Grant, L. O., 21.11–145
Leonov, M. P. et al., 21.1–270
Lovasich, J. L. et al., 21.7–123
Mayoral, J. R., 21.12–180
Plaude, N. O., 21.12–196
Robertson, C. E., 21.5–208
Simpson, J., 21.1–271
Soulage, G. et al., 21.7–124
Weinstein, A. I. et al., 21.5–212

Cloud seeding effects
Berg, T. G. O., 21.5–199
Losavich, J. L. et al., 21.5–207
Lumb, A. M., 21.10–128
Simpson, J. et al., 21.3–307
Tribus, M., 21.1–261

Cloud seeding effects on water supply
Bergeron, T., 21.8–367

Cloud seeding evaluation
Adderley, E. E., 21.8–123
Bankövi, G. et al., 21.10–127
Changnon, S. A., Jr., 21.5–202
Chaterjee, R. N. et al., 21.5–203
Dennis, A. S. et al., 21.3–306
Dumas, A. J. et al., 21.6–624
Elliott, R. D., 21.11–144
Gagin, A., 21.7–118
Hastay, M. et al., 21.6–157
Huff, F. A. et al., 21.5–205
Kornienko, E. E. et al., 21.7–121
Leonov, M. P., 21.3–310
Mielke, P. W., Jr., 21.11–139
Nimmannit, V., 21.12–195
Parungo, F. P., 21.11–147
Podgurskaia, V. N. et al., 21.1–120

Rhea, J. O., 21.11–149
Schickedanz, P. T. et al., 21.5–639
Simidchiev, D., 21.11–150
Simpson, J., 21.12–199
White, B. J., 21.8–130
Woodley, W. L., 21.8–131

Cloud seeding experiments
Australia. Commonwealth Scientific and Industrial Research Organization, 21.9–109R
Dzhuraev, A. D. et al., 21.9–112
Kurbatkin, V. P., 21.9–109
Leonov, M. P. et al., 21.1–270
Schleusener, R. A., 21.12–197
Skywater Conference, 5th, Denver, Colo., Feb. 1969, 21.5–211
U. S. Office of Atmospheric Water Resources, 21.8–129

Cloud seeding from aircraft
Mee, T. R., 21.12–193

Cloud seeding in Arizona, United States
Davis, L. G. et al., 21.1–584

Cloud seeding in Hungry Horse
Shaffer, R. W., 21.12–198

Cloud seeding in Park Range, Colorado
EG&G, Inc., Boulder, Colo., 21.9–113

Cloud seeding in Pskeim Valley, Kazakh S.S.R.
Butov, N. N. et al., 21.9–111

Cloud seeding in South Australia, Australia
Australia. Commonwealth Scientific and Industrial Research Organization, Div. of Radiophysics, 21.1–264

Cloud seeding in Tasmania, Australia
Australia. Commonwealth Scientific and Industrial Research Organization, 21.1–265

Cloud seeding in Ukrainian S.S.R.
Kornienko, E. E. et al., 21.7–121

Cloud seeding in United States
Serra, A., 21.2–44

Cloud seeding of frontal clouds
Iakovlev, B. R., 21.7–115

Cloud seeding of orographic clouds
Grant, L. O., 21.11–145

Cloud seeding of stratus clouds
Buĭkov, M. V. et al., 21.10–126
Leskov, B. N. et al., 21.10–123

Cloud seeding potentialities
Leskov, B. N. et al., 21.10–122
Nakamichi, H., 21.12–194

Cloud seeding projects
Schleusener, R. A., 21.12–197

Cloud seeding research
Neumann, J. et al., 21.8–127
Temple, J., 21.2–45

Cloud seeding–river flow effects
Hastay, M. et al., 21.6–157
Kurbatkin, V. P., 21.9–109
Satterlund, D. R., 21.6–159

Cloud seeding–runoff effects
Nimmannit, V., 21.12–195

Cloud seeding substances
Blair, D. N. et al., 21.3–308
Davis, B. L., 21.6–568
Fukuta, N., 21.12–190
Schaefer, V. J., 21.5–581

Cloud seeding techniques
Fukuta, N., 21.5–572
Kurbatkin, V. P., 21.9–110
Leskov, B. N. et al., 21.10–122
St. Amand, P., 21.6–562
Simpson, J., 21.10–75R

Cloud seeding–water supply effects
Kahan, A. M. et al., 21.8–126
Shaffer, R. W., 21.12–198

Cloud seeding with carbon dioxide
Buĭkov, M. V. et al., 21.10–126
Kornienko, E. E. et al., 21.7–121
Leskov, B. N. et al., 21.10–123
Yamashita, A., 21.7–550

Cloud seeding with ice
Buĭkov, M. V., 21.5–200

Cloud seeding with phloroglucinol
Plaude, N. O., 21.12–196

Cloud seeding with silver iodide
Anyz, 21.12–187
Auer, A. H., Jr., 21.11–143
Battan, L. J., 21.1–266
Berg, T. G. O., 21.5–199; 21.12–188
EG&G, Inc., Boulder, Colo., 21.9–113
Gagin, A., 21.7–118
Gokhale, N., 21.7–545; 21.12–498
Gravenhorst, G., 21.12–192
Layton, R. G., 21.1–269
Levkov, L., 21.11–146
Parungo, F. P., 21.11–147
Rhea, J. O., 21.11–148, –149
St. Amand, P., 21.6–562
Simpson, J., 21.1–271; 21.12–199
Soulage, G. et al., 21.7–124
Sramek, L., 21.12–200
Weinstein, A. I. et al., 21.10–132

Cloud size evaluation
Tanczer, T., 21.5–53

Cloud structure
Stepanenko, V. D., 21.9–86R
Toong, H. D., 21.11–378

Cloud studies
Bunker, A. F. et al., 21.10–369
Nazirov, M., 21.2–256

Cloud systems
Conover, J. H. et al., 21.8–364

Cloud temperature
Podgurskaia, V. N. et al., 21.10–374

Cloud temperature measurement techniques
Basharinov, A. E., 21.1–581
Vergez, M., 21.7–24
Cloud temperatures
Gorodetskiĭ, A. K. et al., 21.1–168
Tebo, A. R., 21.6–588
Cloud top topography
Podgurskaia, V. N. et al., 21.10–373
Cloud types
Dean, G. A., 21.4–270
Cloud variations
Huschke, R. E., 21.9–298
Cloud–weather relationships
Arnold, J. E., 21.4–156
Cloudiness analysis
Chu, S. T., 21.5–603
Cloudiness at sea
Arnold, J. E., 21.4–156
Bunker, A. F. et al., 21.10–369
Henderson, P. M., 21.10–370
Matsumoto, S. et al., 21.6–590
Walch, D. G., 21.5–604
Cloudiness calculations
Brown, S. C., 21.7–575
Cloudiness effects on radiation
Drobyshevich, V. I., 21.1–464
Nazarova, I. V., 21.11–401
Cloudiness effects on sky brightness
Raevskiĭ, A. N., 21.2–128
Cloudiness estimation
McAllister, C. R., 21.5–605
Cloudiness–fog frequency relationships
Steinhauser, F., 21.5–443
Cloudiness forecasting
Hierlihy, R. D., 21.12–146
Sadler, J. C. et al., 21.10–111
Cloudiness probabilities
Hierlihy, R. D., 21.12–146
McAllister, C. R., 21.5–605
Cloudiness–radiation effects
Zaĭtseva, N. A. et al., 21.4–135
Cloudiness regime
U. S. Air Force. Shaw A.F.B., S.C., 21.7–579
Cloudiness structure
Popova, T. P., 21.2–257
Cloudiness–synoptic weather relationships
Mashkovich, S. A., 21.7–578
Clouds on Jupiter
Danielson, R. E. et al., 21.6–704
Gehrels, T., 21.11–581
Teifel, V. G., 21.7–763; 21.10–632
Clouds on Saturn
Teifel, V. G., 21.7–763
Clouds on Venus
Fukuta, N. et al., 21.6–700
Gierasch, P. et al., 21.7–754
Hanson, J. E., 21.4–428
Lewis, J. S., 21.2–441; 21.10–619
Plummer, W. T., 21.8–742
Teifel, V. G., 21.11–596
Clouds–radiation effects
Gerstmann, W., 21.10–262
Clover ecology
Mwakha, E., 21.5–472
Coalescence of drops
Solov'ev, A. D., 21.6–564
Coast research
Snake, M. D., 21.4–783
Coastal aquifers
Stringfield, V. T. et al., 21.10–733
Coastal climates
Kurtz, E., 21.2–332
Lesko, R., 21.11–305
Roberts, J. A., 21.11–462
Tsigel'nitskiĭ, I. I., 21.11–313
Coastal configuration effect on wind
Hoecker, W. H., 21.7–514
Coastal currents
Collins, C. A. et al., 21.10–810
Okubo, A., 21.9–697
Sastry, J. S. et al., 21.9–698
Coastal cyclones
Spar, J. et al., 21.6–325
Coastal effects on precipitation
Godev, N., 21.7–600
Coastal engineering
Nature [London], 21.4–786
Yamada, H., 21.11–787
Coastal erosion
Shuĭskiĭ, I. D., 21.3–622
Coastal hydrodynamic regimes
Yamada, H., 21.11–787
Coastal lagoons
Arnaud, P. et al., 21.10–840
Emery, K. O., 21.9–750
Coastal micrometeorology
Hsu, Shih-Ang, 21.7–491
Coastal oceanographic studies
Donguy, J. R. et al., 21.1–754
Harrison, W., 21.11–786
Coastal oceanography
Sternberg, R. W. et al., 21.10–838
Coastal processes
Korobova, I. Ia., 21.9–203
Coastal rainfall dynamics
Godev, N., 21.7–600
Coastal storms
Bossolasco, M. et al., 21.7–306
Coastal water composition
Conomos, T. J. et al., 21.1–755
Stickney, A. P., 21.2–721
Coastal water temperatures
Cairns, J. L., 21.7–460
Rodewald, M. H., 21.2–213
Coastal waters of Alaska and Canada
Mann, C. R., 21.10–825
Coastal waters of East Brazil
Silva, Paulo de Castro Moreira da, 21.8–845; 21.9–728
Coastal waters of East Tunisia and Libya
Anastassiades, M. et al., 21.6–253
Orieux, A., 21.12–451
Coastal waters of Northeast U. S.
International Council of Scientific Unions, 21.7–835

Coastal waters of Southeast U. S.
Swinnerton, J. W. et al., 21.5–231

Coastal waters of Southwest Africa and West South Africa
Andrews, W. R. H. et al., 21.6–843

Coastal waters of West Africa
Zhukov, L. A., 21.10–816

Coastal waters of West U. S.
Barstow, D. et al., 21.8–814
Broek, H. W., 21.12–774
Collins, C. A. et al., 21.10–818
Gross, M. G., 21.6–844
Ichiye, T., 21.9–720
Juliano, D. W., 21.9–684
Mesecar, R. S., et al., 21.7–847
Miller, A. et al., 21.4–39
Pak, H. et al., 21.5–797
Shepard, F. P., 21.4–660
Sternberg, R. W., 21.9–724
Sugiura, Y., 21.9–704
Syck, J. M., 21.12–767
Williams, P. M. et al., 21.4–672
Yaeke, L. A. et al., 21.3–782

Coastal wave characteristics
Divoky, D., 21.12–792
Glukhovskiĭ, B. Kh., 21.12–778
Iwagaki, Y., 21.12–784 to 787
Kakinuma, T., 21.12–788, –789
Lopatukhin, L. I., 21.11–776
Matushevskiĭ, G. V., 21.9–741
Nazaretskiĭ, L. N., 21.12–783

Coastal waves
Urban, H. D., 21.11–790

Coastal weather
Boer, J. H. et al., 21.9–204

Coastal winds
Raynor, H. W., 21.1–502

Cobalt content of sea water
Fukai, R., 21.1–735
Topping, G., 21.9–694

Cobalt in lakes
Parker, M., 21.4–599

Coconuts
Sekiguti, T., 21.9–393

Coffee cultivation climatology
Woodhead, T., 21.4–331

Cold air advection
Herman, J. A., 21.1–413

Cold air invasions
Boliaev, M. D., 21.9–208
Dobryshman, E. M. et al., 21.6–136
Murri, Alfredo, 21.7–313

Cold climates effects
Davies, J. L., 21.12–571

Cold front clouds
Bernachi, D. A., 21.11–278

Cold front effects
Hill, J. B., 21.2–176

Cold front movement
Boliaev, M. D., 21.9–208

Cold fronts
Chin, P. C., 21.4–119
Minafra, N. et al., 21.4–117

Cold periods
Herzog, J., 21.3–554

Cold region bioclimatology
Matusov, A. L. et al., 21.5–672
Titkhomirov, I. I., 21.10–469

Cold region climatology
Gerdel, R. W., 21.3–676; 21.6–639; 21.11–447
Wilson, C., 21.6–642

Cold water regions
Gong, Y. et al., 21.9–716
Negata, Y., 21.10–814
Wyrtki, K., 21.12–773

Cold winters
Kulakovskaia, M. I. et al., 21.8–383, –393

Collected climatological papers
Court, A., 21.2–283
Dresch, J. et al. (eds.), 21.9–556

Collected geological papers
International Association for Quaternary Research, 21.5–667

Collected hydrological papers
Akademiia Nauk SSSR. Institut Geografii, 21.11–355
Chorley, R. J., 21.1–25
Dresch, J. et al. (eds.), 21.9–556
Wolman, A., 21.8–776

Collected meteorological papers
Rex, D. F. (ed.), 21.9–404
Rumania. Institutul Meteorologic, Bucharest, 21.6–4

Collected oceanographic papers
Akademiia Nauk SSSR, 21.9–678
Gullion, E. A., 21.1–26

Collected reprints
U. S. Institute for Oceanography, 21.4–635

Collected selenography papers
U. S. National Aeronautics and Space Administration, 21.5–697

Collected space science papers
U. S. National Aeronautics and Space Administration, 21.5–697; 21.9–487

Collected works
Advances in Environmental Sciences and Technology, 21.12–225
Holt, M., 21.1–6
Maunder, W. J. et al., 21.5–269
Shifrin, K. S. (ed.), 21.9–27
Tolstikhin, O. N. et al., 21.8–813

Collimators
Underwood, J. H., 21.3–187

Color of Jupiter
Grigor'eva, Z. N., 21.11–584
Teifel', V. G., 21.10–631

Colorimetric analysis
Ellsworth, E., 21.10–88

Combustion air effects
Whaley, H. et al., 21.6–189

Comet spectra
Bappu, M. K. V. et al., 21.7–363
Comet theories
Bronshten, V. A. et al., 21.4–423
Cometary magnetic fields
Gonzales, D. E., 21.11–292
Cometary matter
Fracassini, M. et al., 21.2–452
Cometary research
Vsekhsviatskiĭ, S. K., 21.5–713
Communication networks
U. S. National Aeronautics and Space Administration, 21.1–156
Communication satellites
Symposium on Space and Radiocommunication, Paris, June 2, 1969, 21.9–465
Communication techniques
Laussade, J. P. et al., 21.4–365
Computation errors of O_3 transparency
Kozyrev, B. P. et al., 21.10–272
Computer
Sokolov, V. N., 21.11–15
Computer aerology
Hinkelmann, K., 21.8–16
Computer agrometeorology
Novikov, A. G., 21.8–554
Tokareva, L. G. et al., 21.9–96
Computer applications to forecasting
Klein, W. H., 21.7–78
Palmieri, G. et al., 21.7–90
Wege, K., 21.7–16
Computer applications to ionosphere
Fritz, J. H. et al., 21.9–164
Computer applications to meteorology
Craddock, J. M., 21.7–1
Computer applications to upper air data
Parry, H. Dean, 21.6–23
Computer astrophysics applications
Boyd, R. L. F., 21.10–589
Computer climatology
Ovsiannikov, V. V., 21.11–168
Symposium on Data Processing for Climatological Purposes, Asheville, N.C., May 13–18, 1968, 21.9–20
Computer cloud seeding applications
Elliott, R. D., 21.11–144
Computer flood control planning
James, L. D., 21.5–651
Computer fog modification
Eadie, W. J., 21.5–194
Computer forecasting
Belousov, S. L., 21.8–84
Besleaga, N., 21.5–158
De Lisle, J. F., 21.10–2
George, J. J., 21.8–79
Gruza, G. V. et al., 21.10–99
Semendiaev, K. A., 21.10–102
Straede, J., 21.5–176
Computer hydraulics
Delleur, J. W. et al., 21.5–743
Computer hydrology
Cruickshank, V. C. et al., 21.4–506
Decoursey, D. G. et al., 21.6–747
Delleur, J. W. et al., 21.5–742
Freeze, R. A. et al., 21.6–748
Grigor'ev, V. I., 21.11–730, –680, –681
Mokliak, V. I., 21.12–672
Morgan, C. O. et al., 21.3–740
Netherlands. Rijkswaterstaat, 21.9–655
Riley, J. P., 21.11–674
Ropes, L. H., 21.3–742
Sereda, G. A., 21.12–22
Symposium on Analog and Digital Computers in Hydrology, Tucson, Ariz., 21.3–736
Computer hydrometeorology
Kliukin, N. K., 21.9–337
Computer meteorological programs
Chidley, T. R. E. et al., 21.10–359
Computer meteorology
De Lisle, J. F., 21.10–2
Makhover, Z. M., 21.11–54
Sereda, G. A., 21.12–22
Computer models
Eddy, A., 21.3–14
Computer oceanography
National Institute of Oceanography, Wormley, England, 21.3–777
Spidchenko, A. N., 21.12–739
Spielbauer, M. et al., 21.9–723
Computer processing of ozone data
Lortie, J., 21.5–330
Computer processing of upper air data
Burlak, G. N., 21.11–23
Computer routines
Stephenson, J. J. et al., 21.3–377
Computer simulated sea waves
Shvetsov, K. Ia. et al., 21.4–754
Computer turbulence
Pao, Y. H., 21.4–195
Computer upper air forecasts
Davies, A. F., 21.11–25
Computer weather data
Kindle, E. C., 21.9–32
Computer weather forecasting
Mason, B. J., 21.9–82
Computerized rawinsonde data
Kuehnast, I., 21.12–30
Computers in geography
Tarrant, J. R. (comp.), 21.12–28R
Condensation coefficient
Shiniaev, B. M., 21.10–44R
Condensation control
Bakhanova, R. A., 21.12–510
Condensation kinetics
Schuster, B. G., 21.2–249

Condensation level
  Veselova, G. K., 21.12–455
Condensation nuclei
  Dufour, L., 21.9–284
  Hobbs, P. V. et al., 21.6–569
  Low, R. D. H., 21.8–356
  Selezneva, E. S., 21.9–74R
  Winter, V. et al., 21.10–367
Condensation nuclei counters
  Fitzgerald, J. W., 21.6–108
  Riediger, G., 21.12–113
  Saxena, V. K. et al., 21.6–110
Condensation nuclei formation
  Billard, F., 21.12–511
  Bricard, J. et al., 21.7–551
  Evans, G. R., 21.12–512
  Holle, R., 21.12–201
  Vohra, K. G. et al., 21.9–287
Condensation nuclei measurement techniques
  Kirsh, A. A., 21.12–516
Condensation nuclei measurements
  Colacino, M. et al., 21.7–138
  McWilliams, S., 21.7–553
  Radke, L. F., 21.12–518
  Voskresenskiĭ, A. I., 21.9–288
Condensation nuclei–radioactive ion interaction
  Kawano, M., 21.12–326
Condensation nuclei symposia
  International Conference on Condensation and Ice Nuclei, 7th, Prague and Vienna, 21.12–499
Condensation of water vapor
  Keng, E. Y. H., 21.12–243
  Mézáros, E., 21.12–503
Condensation pressure calculation
  Nordquist, W. S., Jr., 21.11–34
Condensation processes
  Bonis, K., 21.3–645
  Kornfeld, P., 21.7–546
  Levkov, L., 21.6–557; 21.7–548
  Mészáros, E., 21.6–560
  Miloshev, G., 21.6–561
  Morachevskiĭ, V. G., 21.12–250
Condensation temperature calculation
  Nordquist, W. S., Jr., 21.11–34
Conference on Global Circulation of the Atmospheres, London, Aug., 1969
  Nature [London], 21.4–4
Congelation
  Konstantinova, G. S., 21.3–567
Congressional legislation in meteorology
  American Meteorological Society Bulletin, 21.5–2
Congressional legislation in oceanography
  American Meteorological Society Bulletin, 21.5–2
Conifer forest
  Anderson, R. C., 21.3–505
Conjugate points
  Ben'kova, N. P., 21.12–291
  Hargreaves, J. K., 21.10–539
  Hooper, A. W., 21.7–190
  Millman, P. M., 21.11–520
  Wrenn, G. L. et al., 21.7–209
Constant-level balloon flights
  Ballard, H. N., 21.11–77
  Morel, P., 21.5–87
Constant level balloons
  Fourrier, J. et al., 21.6–453
Constant volume balloons
  Jessup, E. A., 21.1–143
Construction industry forecasting services
  White, R. M., 21.1–80
Continental hydrometeor
  Posokhov, E. V., 21.12–531
Continental shelf temperatures
  Mesecar, R. S. et al., 21.7–847
Continentality
  Bell, B., 21.11–479
  Oliver, J. E., 21.10–472
  Roberts, J. A., 21.11–462
Contingency tables
  Patel, H. I. et al., 21.5–33
Continuum radiation
  Friedman, M., 21.11–629
Contour charts prediction, 500 mb
  De Felice, P., 21.12–465
Contour 100-mb chart analysis
  Davis, N. E., 21.9–85
Controlled burning weather forecasting
  Harrington, W., 21.6–95
Convection above heated ground
  Shershkov, V. V., 21.2–235
Convection dynamics
  Anthes, R. A., 21.5–528
  Asai, T. et al., 21.7–233
  Newburg, E. A. et al., 21.1–537
  Velte, W., 523
Convection equations
  Calder, K. L., 21.1–539
  Rokotian, V. E., 21.5–534
Convection experiments
  Pshenai-Severin, S. V., 21.6–521
Convection in boundary layer flow
  Shershkov, V. V., 21.2–235
Convection in seawater
  Foster, T. D., 21.7–844
  Stern, M. E. et al., 21.9–714
Convection over fires
  Varma, R. K., 21.11–354
Convection studies
  Berry, E. X., 21.3–634
  Davis, S. H., 21.1–541
  Konrad, T. G., 21.1–543
Convection theories
  Telford, J., 21.1–544
Convective activity
  Dirks, R. A., 21.8–339
  Gerrish, H. P., 21.5–532
  Harris, B. E. et al., 21.5–306, –533
Convective cells
  Faller, A. J. et al., 21.5–531

Hardy, K. R. et al., 21.1–542
Konrad, T. G., 21.1–543

Convective cloud bands
Asai, T., 21.6–579
Vel'tishchev, N. F. et al., 21.7–574

Convective cloud characteristics
Mikhaĭlenko, N. M., 21.3–416

Convective cloud development
Bonis, K., 21.3–645
Newburg, E. A. et al., 21.1–537
Shmeter, S. M., 21.3–653
Takeda, T., 21.10–375

Convective cloud dissipation
Vul'fson, N. I., 21.11–140

Convective cloud dynamics
List, R. et al., 21.1–607
Newton, C. W., 21.1–590

Convective cloud mechanism
Arnason, G. et al., 21.5–529
Phillips, B. B., 21.5–614

Convective cloud models
List, R. et al., 21.1–607
Takeda, T., 21.10–375

Convective cloud modification
Levin, L. M. et al., 21.7–116

Convective cloud precipitation
Lebedev, S. L., 21.5–613

Convective cloud seeding
Kiriukhin, B. V. et al., 21.5–206
Vul'fson, N. I., 21.11–140

Convective cloud structure
Beritashvili, B. Sh. et al., 21.10–371

Convective cloud turbulence
Morton, B. R., 21.1–589

Convective cloud vertical motion
List, R. et al., 21.6–584

Convective clouds
Gambo, K. et al., 21.3–637
Gavrilenko, N. M., 21.7–564
Riehl, H., 21.3–636

Convective index determination
Braun, O., 21.1–538

Convective instability
Faller, A. J. et al., 21.5–531
Van der Borght, R., 21.8–713

Convective motion
Anthes, R. A., 21.5–528
Fortak, H., 21.11–235
Gambo, K. et al., 21.3–637
Haque, S. M. A., 21.7–234
Ogura, Y. et al., 21.4–246
Telford, J., 21.1–544

Convective ocean mixing
Nikiforov, E. G. et al., 21.4–707

Convective precipitation conditions
Akulinicheva, A. A., 21.12–394
Veselova, G. K., 21.12–397

Convective process
Arnason, G. et al., 21.5–529
Pshenai-Severin, S. V., 21.6–521

Convective processes
Andreev, V., 21.10–346
Skuratova, I. S., 21.4–247

Convective radar echoes
Granitzny, P., 21.3–85

Convective rainfall
Gerrish, H. P., 21.5–532

Convective storm model
Götz, G., 21.11–351

Convective storms
Dingle, A. N., 21.12–396
Szalay, G., 21.3–450

Convective vertical velocities
Akulinicheva, A. A., 21.12–393

Convective vortices
Anthes, R. A., 21.5–528
Franz, H. W., 21.3–635

Cooling methods
Lowry, W. P., 21.8–362

Cooling rates
Genadiev, N., 21.5–573

Coos Bay, Coastal Waters of West U. S.
Blanton, J., 21.12–806

Coral reefs
Maxwell, W. G. H., 21.10–444

Coriolis effects on currents
Komar, P. D., 21.2–727

Coriolis force
Feussner, K., 21.6–265
Shakina, N. P. et al., 21.2–224

Coriolis force effects
Shakina, N. P., 21.10–236

Corn
Sheherbak, L. V., 21.1–101

Corn cultivation
Hashemi, F. et al., 21.6–631
Jones, J. N., 21.7–652
Levenko, I. T. et al., 21.2–281
Vangelov, A., 21.2–246
Walker, J. M., 21.4–180

Corn ecology
Kilen, T. C. et al., 21.8–416
Lemon, E. R. et al., 21.6–369

Corn field microclimatology
Sambikin, M. M. et al., 21.4–334

Corn growth
Pătăchie, I., 21.6–657

Corn–soil moisture effects
Mannering, J. V., 21.8–491

Corn striations
Waite, P. J. et al., 21.1–409

Corn yield
Bruce, R. R. et al., 21.10–423
Thompson, L. M., 21.9–399

Corona activity
Burton, W. M., 21.2–498
Dellfus, A., 21.2–499
Leroy, J. L. et al., 21.1–710
Mustel, E. R., 21.9–222

Corona discharges
Dawson, G. A., 21.8–652

Corona structure
Schatten, K. H., 21.9–555
Warwick, J. W. et al., 21.7–749

Coronal brightness
Hansen, R. T. et al., 21.9–550

- **Coronal composition**
  - Nakada, M. P., 21.9–554
- **Coronal condensations**
  - Chevalier, R. A. et al., 21.10–672
- **Coronal electric field**
  - Sen, H. K., 21.6–728
- **Coronal electron density**
  - Boischot, A. et al., 21.2–421
  - Dollfus, A., 21.2–499
  - Hansen, R. T. et al., 21.9–550
- **Coronal emission lines**
  - Chevalier, R. A. et al., 21.10–672, -673
  - Neupert, W. M. et al., 21.2–501
  - Tousey, R. et al., 21.2–507
- **Coronal emissions**
  - Burton, W. M., 21.2–498
  - Leroy, J. L. et al., 21.1–710
- **Coronal expansion**
  - Dessler, A. J., 21.9–220
- **Coronal heating**
  - D'Angelo, N., 21.12–641
- **Coronal ionization**
  - Beigman, I., 21.12–640
- **Coronal magnetic field**
  - Boischot, A. et al., 21.2–421
  - Meyer, F., 21.2–500
  - Neukirk, G. et al., 21.2–502
  - Tsuchiya, A., 21.4–456
  - Zaĭtsev, V. V., 21.2–429
- **Coronal models**
  - Withbroe, G. L., 21.12–648
- **Coronal motions**
  - McLellan, A., IV, 21.6–727
  - Meyer, F., 21.2–500
- **Coronal observation techniques**
  - Levy, G. S., 21.11–646
  - Norton, R. H., 21.6–728
- **Coronal observations during eclipses**
  - Delone, A. B. et al., 21.9–549
  - Lafinneur, M., 21.9–552
  - Nesterko, N. A., 21.12–642
  - Schatten, K. H., 21.9–555
- **Coronal photometry**
  - Rušin, V. et al., 21.10–675
- **Coronal radiation**
  - Kaiser, C. B., 21.6–714
- **Coronal rotation**
  - Hansen, R. T. et al., 21.9–551
- **Coronal streamers**
  - Alexander, J. K. et al., 21.4–440
  - Dollfus, A., 21.2–499
  - Tousey, R. et al., 21.2–503
- **Coronal studies**
  - Laffineur, M. et al., 21.9–553
- **Corpuscular ionization of F2-layer**
  - Besprozvannaia, A. S., 21.12–292
- **Corpuscular radiation**
  - Filz, R. C. et al., 21.7–406
  - Gorinov, N., 21.5–347
- **Corpuscular radiation–ionosphere effects**
  - Belikovich, V. V. et al., 21.8–162
  - Torr, D. G. et al., 21.6–242
- **Corpuscular radiation variations**
  - Tulinov, V. F. et al., 21.6–421
- **Correlation analysis**
  - Kiianovskiĭ, M. P. et al., 21.10–171
- **Correlation function**
  - Farley, D. T., 21.4–76
  - Martem'ianov, V. I., 21.2–352
  - Panchev, S., 21.7–18
- **Correlation methods**
  - Patachie, I., 21.7–693
- **Correlation of weather parameters**
  - Panchev, S., 21.7–19
- **Correlations**
  - Smirnov, N. P. et al., 21.7–282
- **Corrosion of metals by air pollutants**
  - Thom, N. G., 21.11–165
- **Cosmic dust accretion**
  - Shima, M. et al., 21.5–286
- **Cosmic dust in the atmosphere**
  - Emil'ianov, Iu. M., 21.10–13R
- **Cosmic dust in upper atmosphere**
  - Kohl, G., 21.12–279
- **Cosmic dust measurement techniques**
  - Fesenkov, V. G., 21.5–692
- **Cosmic dust measurements**
  - Berg, O. E. et al., 21.4–433; 21.5–691
  - Konstantinov, B. P. et al., 21.2–451
- **Cosmic electrodynamics textbook**
  - Piddington, J. H., 21.11–548
- **Cosmic electromagnetic radiation**
  - Tsytovich, V. N., 21.3–715
- **Cosmic noise absorption**
  - Belikovich, V. V. et al., 21.4–61
- **Cosmic radiation**
  - Conklin, E. K., 21.2–404
  - Dorman, L. I., 21.3–535
  - Kaminer, N. S. et al., 21.3–537
  - Puri, R. K. et al., 21.3–541
- **Cosmic radiation dosages**
  - Curtis, S. B. et al., 21.8–265
- **Cosmic radio emission theories**
  - Tsytovich, V. N., 21.11–557
- **Cosmic radio frequency spectra**
  - Andrew, B. H. et al., 21.7–745
  - Braude, S. Ia. et al., 21.4–464
  - Kraus, J. D. et al., 21.8–730
  - McCray, R., 21.2–432
  - Menzel, D. H., 21.8–717
  - Tsytovich, V. N., 21.11–557
- **Cosmic radio noise measurements**
  - Cohen, M. H., 21.4–466
- **Cosmic radio noise scintillation**
  - Hewish, A. et al., 21.2–141
- **Cosmic radio noise variations**
  - Dautcourt, G., 21.4–467

Cosmic radio sources
- Andrew, B. H. et al., 21.7–745
- Cohen, M. H., 21.4–466
- Kraus, J. D. et al., 21.8–730
- Krivorutskiĭ, E. N. et al., 21.9–467
- McCray, R., 21.2–432
- Wolfe, A. M. et al., 21.2–433

Cosmic radio wave propagation
- Trizna, D. B. et al., 21.5–693

Cosmic ray
- Kapustin, P. A. et al., 21.3–185

Cosmic ray albedo
- Gokhale, G. S. et al., 21.3–536

Cosmic ray albedo neutron decay (CRAND)
- Farley, T. A. et al., 21.8–268

Cosmic ray alpha particle flux
- Kondo, I. et al., 21.10–593

Cosmic ray angular distribution
- Gall, R. et al., 21.7–410

Cosmic ray anisotropy
- Dorman, L. I. et al., 21.2–163
- Fisk, L. A. et al., 21.7–407
- Forbush, S. E., 21.7–409
- Jacklyn, R. M. et al., 21.8–306
- Schatten, K. H. et al., 21.3–714
- Wentzel, D. G., 21.2–170

Cosmic ray astronomy
- Ginzburg, V. L., 21.10–295

Cosmic ray asymmetry
- Gokhale, G. S. et al., 21.3–536

Cosmic ray calculations
- Baker, M. B. et al., 21.7–392

Cosmic ray composition
- Bertsch, D. L. et al., 21.7–396
- O'Dell, F. W. et al., 21.10–300
- Reames, D. V., 21.12–438

Cosmic ray counters
- Blokh, Ia. L. et al., 21.9–230
- Carmichael, H., 21.9–231

Cosmic ray cutoff
- Barcus, J. R., 21.7–393, –394
- Flindt, H. R., 21.7–408

Cosmic ray cutoff rigidities
- Carmichael, H., 21.7–401
- Smart, D. F., 21.7–421

Cosmic ray data error calculations
- Briggs, R. M. et al., 21.7–398

Cosmic ray data processing
- Pimenov, I. A., 21.10–302, –303

Cosmic ray decreases
- Lockwood, J. A. et al., 21.7–414

Cosmic ray diffusion
- Miroshnichenko, L. I., 21.3–540
- Nikolaev, Iu. M., 21.12–437

Cosmic ray diffusion coefficient
- Sousk, S. F. et al., 21.10–595

Cosmic ray effects on Earth's atmosphere
- Miroshnichenko, L. et al., 21.2–168

Cosmic ray effects on ionosphere
- Valinov, P., 21.2–81

Cosmic ray effects on Venus
- Brown, R. R., 21.10–291

Cosmic ray electron energy spectrum
- Beedle, R. E. et al., 21.2–161

Cosmic ray electron flux
- Simnett, G. M., 21.9–234

Cosmic ray electrons
- Beedle, R. E. et al., 21.2–161
- Hayakawa, S., 21.9–479
- Simnett, G. M. et al., 21.8–308

Cosmic ray energy spectrum
- Miroshnichenko, L. I., 21.7–416
- Prilutskiĭ, O. et al., 21.10–596
- Sakai, T., 21.9–481
- Von Rosenvinge, T. T. et al., 21.8–309

Cosmic ray events
- Baker, M. B. et al., 21.7–392

Cosmic ray flux
- Wayland, J. R., 21.12–440

Cosmic ray–geomagnetic relationships
- Forbush, S. E., 21.7–409
- Mizun, Iu. G., 21.9–233
- O'Dell, F. W. et al., 21.10–300

Cosmic ray heavy nuclei
- Von Rosenvinge, T. T. et al., 21.8–309

Cosmic ray increases
- Dodson, H. W. et al., 21.10–293
- Dorman, L. I. et al., 21.8–266

Cosmic ray intensities
- Bel'skiĭ, S. A., 21.12–434
- Briggs, R. M. et al., 21.3–534
- Jokipiĭ, J. R., 21.8–278
- Krivoshapkin, P. A. et al., 21.3–538
- Newman, R. C., 21.9–287
- Sandström, A. E., 21.7–420

Cosmic ray intensity eleven-year variations
- Stozhkov, Ia. I. et al., 21.9–236

Cosmic ray intensity recorders
- Blokh, Ia. L., 21.7–397

Cosmic ray intensity variations
- Charakhch'ian, A. N. et al., 21.10–292
- Lovera, C., 21.2–167
- Pomerantz, M. A., 21.7–418
- Wayland, J. R., 21.12–440

Cosmic ray intensity variations, 27 days
- Balasubrahmanyan, V. K. et al., 21.9–290

Cosmic ray–interplanetary magnetic field relationship
- Dorman, L. I. et al., 21.10–294

Cosmic ray–ionosphere effects
  Driatskiĭ, V. M., 21.12–295
  Mizun, Iu. G., 21.9–233
Cosmic ray isotope production
  Takagi, J., 21.7–423
Cosmic ray latitude measurements
  Allkofer, O. C. et al., 21.7–390
Cosmic ray–magnetic relationships
  Lockwood, J. A. et al., 21.7–414
Cosmic ray measurements
  Carmichael, H. et al., 21.5–466, –467; 21.7–399, –400
  Hughes, J., 21.2–397
  Kapustin, P. A. et al., 21.3–185
  Khrulev, V. V., 21.3–186
Cosmic ray mesons
  Briggs, R. M. et al., 21.7–398
Cosmic ray–meteorite effects
  Lal, D. et al., 21.4–491
Cosmic ray modulation
  Balasubrahmanyan, V. K., 21.2–160
  Charakhch'ian, A. N. et al., 21.10–292
  Hayakawa, S., 21.9–479
  Jacklyn, R. M. et al., 21.8–306
  Kondo, I. et al., 21.10–593
  Nikolaev, Ia. M., 21.12–437
  Sakai, T., 21.9–481
Cosmic ray muons
  Earnshaw, J. C. et al., 21.7–404
  Takagi, J., 21.7–423
Cosmic ray neutron energy spectrum
  Grigorov, N. L. et al., 21.8–304
Cosmic ray neutron flux
  Albernhe, F. et al., 21.10–289
Cosmic ray neutron intensities
  Ishida, Y. et al., 21.8–305
Cosmic ray neutron intensity monitors
  Leonov, V. Kh., 21.12–436
Cosmic ray neutron measurements
  Ishida, Y. et al., 21.8–305
Cosmic ray neutron spectra
  Albernhe, F. et al., 21.10–289
Cosmic ray neutron variations
  Hashim, A. et al., 21.10–297
Cosmic ray neutrons
  Droman, L. I., 21.9–20R
Cosmic ray nuclei
  Von Rosenvinge, T. T. et al., 21.2–169
Cosmic ray observations
  Carmichael, H., 21.9–231
Cosmic ray origin
  Ginzburg, V. L. et al., 21.10–296
  Lal, S. et al., 21.10–594
Cosmic ray particle interaction
  Arushanov, G. G., 21.2–158
  Dedenko, L. G., 21.7–403
  Stecker, F. W., 21.10–305
Cosmic ray particles
  Earnshaw, J. C. et al., 21.7–404
Cosmic ray periodicities
  Kolomeets, E. V., 21.12–435
  Lovera, C., 21.2–167
Cosmic ray physics
  Ginzburg, V. L. et al., 21.10–296
  Lal, D., 21.3–539
Cosmic ray positions
  Stecker, F. W., 21.10–597
Cosmic ray produced radioactive isotopes
  Bhandari, N. et al., 21.7–221
  Rangarajan, C., 21.12–333
Cosmic ray propagation
  Hashim, A. et al., 21.10–297
  Prilutskiĭ, O. et al., 21.10–596
  Quenby, J. J., 21.7–419
  Tademaru, E., 21.11–565
  Von Rosenvinge, T. T. et al., 21.2–169; 21.8–309
  Wentzel, D. G., 21.2–170
Cosmic ray radio emissions
  Allan, H. R., 21.3–533
Cosmic ray research
  Schardt, A. W. et al., 21.6–414
Cosmic ray rigidity spectra
  Palmeira, R. A. R. et al., 21.7–417
Cosmic ray shower particles
  Babaian, Kh. P. et al., 21.7–391
  Maze, R. et al., 21.7–415
Cosmic ray showers
  Azimov, S. A. et al., 21.2–159
Cosmic ray–solar activity relationships
  Charakhch'ian, A. N. et al., 21.10–292
  Kolomeets, E. V., 21.12–435
Cosmic ray sources
  Dodson, H. W. et al., 21.10–293
  Stecker, F. W., 21.9–484
Cosmic ray stations
  Pimenov, I. A., 21.10–303
Cosmic ray storms
  Akasofu, S. I., 21.12–433
Cosmic ray storms–solar flare relationships
  Dodson, H. W. et al., 21.10–293
Cosmic ray–sunspot relationships
  Stozhkov, Iu. I. et al., 21.9–236
Cosmic ray surveys
  Carmichael, H. et al., 21.5–466, –467; 21.7–399, 400
  Ginzburg, V. L., 21.9–33R
Cosmic ray telescopes
  Nakagawa, S., 21.11–296
Cosmic ray theories
  Ferraro, V. C. A., 21.2–138
Cosmic ray trajectories
  Azimov, S. A. et al., 21.2–159
Cosmic ray variations
  Carmichael, H. et al., 21.7–399

Kawasaki, S., 21.7–413
Velinor, P., 21.5–465
Cosmic ray variations, 11 years
Webber, W. R., 21.11–566
Cosmic rays
Ginzburg, V. L., 21.10–295
Cosmic X-ray and gamma ray spectra
Trombka, J. I., 21.12–439
Cosmic X-ray astronomy
Pounds, K. A., 21.6–688
Cosmic X-ray observations
Friedman, H., 21.8–709
Cosmogony
Lyttleton, R. A., 21.2–436
Cosmology
Peebles, P. J. E., 21.7–740
Cotidal charts
Bogdanov, K. T. et al., 21.2–796
Cotton crop yields
Spurgeon, W. I., 21.4–335
Cotton ecology
Gipson, J. R., 21.6–427
Wanjura, D. F. et al., 21.6–434
Cotton field microclimatology
Mishchenko, Z. A., 21.7–677
Spurgeon, W. I., 21.4–335
Cotton fields
Ross, Iu. K. et al., 21.1–460
Cotton phenology
Khershkovich, E., 21.3–128
Cotton plants
Gorbunova, I. G., 21.6–630
Counterradiation intensity
Ashcheulov, S. V., 21.10–3R, –6R
Crachin
U. S. Air Weather Service, 21.10–446
Creep tests
Sayles, F. H., 21.12–461
Crevasse formation
Schmidt, E., 21.9–264
Cromwell current
Murty, T. S. et al., 21.9–721
Rotschi, H. et al., 21.10–820
Crop drying
Derbyshire, J. C. et al., 21.8–682
Mixon, Aubrey C. et al., 21.6–357
Crop ecology
De Pina, A. L., 21.2–317
Fedoseev, A. P., 21.1–51
Crop evapotranspiration
Kuz'min, P. P. et al., 21.5–561
Ravelli, F. et al., 21.5–565
Crop forecasting
Kulik, M. S., 21.7–106
Sirotenko, O. D., 21.9–103
Crop indexes
De Pina, A. L., 21.2–317
Crop influences on atmospheric carbon dioxide
Brown, K. W. et al., 21.5–220
Crop insurance
Oury, B., 21.9–10
Crop losses
Barron, N. A. et al., 21.10–405
Chechik, F. Sh., 21.10–416
Crop microclimatology
Lourence, F. J. et al., 21.4–332
Crop photosynthesis
Lemon, E. R. et al., 21.6–369
Crop soil water requirements
Koronkevich, N. I., 21.11–437
Crop surveys
Mokievskiĭ, V. M. et al., 21.8–681
Crop yield
Papadakis, J., 21.3–506
Crop yield forecasting
Grushka, I. G., 21.2–321, –322
Meladze, G. G., 21.12–167
Sirotenko, V. G., 21.9–395
Tokareva, L. G. et al., 21.9–96
Cruise Norte 5
Chile. Instituto de Fomento Pesquero, Santiago de Chile, 21.2–678
Crustal tilting
Tanaka, T., 21.1–471
Crystals in Mars clouds
Davydov, V. D., 21.12–607
Cumulonimbus clouds
Shmeter, S. M., 21.3–654
Cumulonimbus development
Livanova, N. A., 21.7–568
Marshall, J. S., 21.1–588
Shmeter, S. M., 21.1–592
Cumulonimbus mechanics
Marshall, J. S., 21.1–588
Cumulonimbus models
Alberty, R. L., 21.5–593
Cumulonimbus structure
Livanova, N. A., 21.7–568
Minervin, V. E. et al., 21.1–116
Shmeter, S. M., 21.1–592
Cumulonimbus updrafts
Shmeter, S. M., 21.1–592
Cumulus cloud
Morachevskiĭ, V. G. et al., 21.6–613
Cumulus cloud convection
Asai, T., 21.5–530
Cumulus cloud development
Chao, J. P. et al., 21.1–2
Kachurin, L. G. et al., 21.1–586
Lazareva, K. I. et al., 21.6–583
Murray, F. W., 21.5–598
Orville, H. D. et al., 21.5–599
Voit, F. Ia. et al., 21.10–377
Cumulus cloud dynamics
Byers, H. R., 21.1–582
Chao, J. P. et al., 21.1–2
Liu, J. Y. et al., 21.1–587
Weinstein, A. I., 21.1–595
Cumulus cloud evolution
Pastushkov, R. S., 21.6–586
Cumulus cloud investigations
Byers, H. R., 21.1–582
Cumulus cloud lanes
U. S. Air Force. Cambridge Research Labs., 21.7–562
Cumulus cloud mechanics
Davis, L. G. et al., 21.1–584
Fraser, A. B., 21.1–585

Morton, B. R., 21.1–589
Weinstein, A. I., 21.1–595
Yang, I. K., 21.1–596

Cumulus cloud microstructure
Skatskii, V. I., 21.5–601
Warner, J., 21.4–277, –278; 21.11–353

Cumulus cloud models
Kachurin, L. G. et al., 21.1–586
Liu, J. Y. et al., 21.1–587
Morton, B. R., 21.1–589
Yang, I. K., 21.1–596

Cumulus cloud observations
Kohl, D. A., 21.12–528

Cumulus cloud seeding
Davis, L. G. et al., 21.1–584
Howell, W. E., 21.3–309
Mee, T. R., 21.12–193
Simpson, J., 21.1–271; 21.5–600
Weinstein, A. I. et al., 21.1–595; 21.5–212; 21.10–132
Woodley, W. L., 21.8–131

Cumulus cloud structure
Byers, H. R., 21.1–582
Voit, F. Ia. et al., 21.10–377

Cumulus clouds
Laktionov, A. G. et al., 21.7–554

Cumulus development
Liu, J. Y. et al., 21.4–275
Pham, Van Dinh, 21.10–92R

Cumulus dynamics
Weinstein, A. I., 21.10–94R

Cumulus models
Liu, J. Y. et al., 21.4–275
Murray, F. W., 21.5–598
Orville, H. D. et al., 21.5–599
Simpson, J. et al., 21.5–600
Weinstein, A. I., 21.1–595

Cumulus seeding
Budilova, E. P., 21.11–7R

Cup anemometers
Bergen, J. D., 21.6–81
Bradley, E. F., 21.3–192
Frenzen, P., 21.1–181
Ramachandran, S., 21.10–77
Surazhskiĭ, D. Ia. et al., 21.3–194
Torochkov, V. Iu. et al., 21.9–64

Current circulation
Keller, J. B., 21.1–736

Current effects on ocean temperatures
Hamon, B. V., 21.2–748

Current generation theories
Shapiro, N. B., 21.2–759

Cyclogenesis
Kleinschmidt, E. et al., 21.3–463
Tantawy, A. H. I., 21.7–285

Cyclogenesis analysis
Titkos, E., 21.7–286
Vissenti, I. et al., 21.1–398

Cyclogenesis distribution
Ramanna, G. R., 21.6–335

Cyclogenesis forecasting
Chang, D. T. et al., 21.5–414

Cyclogenesis–radioactive fallout relationships
Mahlman, J. D., 21.6–260

Cyclone analysis
Rasmussen, J. L. et al., 21.6–328

Cyclone circulation
Browning, K. A. et al., 21.1–397

Cyclone cloud systems
Bel'skaia, N. N., 21.12–376
Bugaev, V. A., 21.12–377

Cyclone deepening
Goldman, J. L., 21.6–326

Cyclone development
Brodrick, H. J. et al., 21.3–459
Goldman, J. L., 21.6–326
Tyner, R. V., 21.12–124

Cyclone displacement
Martinov, M. I., 21.4–100

Cyclone energy
Langlois, W. E., 21.3–454
Widger, W. K., Jr., 21.1–399

Cyclone forecasting
Evseev, M. P., 21.7–103

Cyclone formation
Popova, T. P., 21.2–257

Cyclone frequencies
Chukanin, K. I., 21.4–99

Cyclone mechanics
Titkos, E., 21.7–286

Cyclone models
Anthes, R. A., 21.11–266

Cyclone movement
Mukherjee, A. K. et al., 21.6–330

Cyclone movement and 700- to 500-mb circulation
Martinov, M. I., 21.12–379

Cyclone scale eddies
Green, J. S. A., 21.3–411

Cyclone scale waves
Baer, F., 21.3–457

Cyclone–sea temperature effects
O'Brien, J. J., 21.7–288

Cyclone structure
Rasmussen, J. L. et al., 21.6–328
Tantawy, A. H. I., 21.7–285

Cyclone synoptic analysis
Strutu, M. et al., 21.3–453

Cyclone tracks
Black, R. E., 21.11–264

Cyclone turbulence factors
Vowinckel, E. et al., 21.4–101

Cyclone water budget
Rasmussen, J. L. et al., 21.6–328

Cyclone waves
Egger, J., 21.6–320
Yamashita, A. et al., 21.6–329

Cyclones
Desai, B. N., 21.7–493

Cyclones, Arabian Sea
Pedgley, D. E., 21.8–229

Cyclones, Bay of Bengal
Mukherjee, A. K. et al., 21.6–330

Cyclonic activity
Agi, M., 21.2–95
Pedgley, D. E., 21.8–229

Cyclonic precipitation
Bodalai, I. et al., 21.9–302
Browning, K. A. et al., 21.1–397
Korte, A. F. et al., 21.5–609

Cyclonic rainfall
Dankwa, J. B., 21.3–655
Mukherjee, A. K. et al., 21.6–330
Rai Sircar, N. C. et al., 21.8–392

Cyclonic–sea level effects
Holland, G. L., 21.2–777
Cyclonic storm development
Rodewald, M., 21.11–265
Cyclonic storms
Wilson, D. A. et al., 21.7–284
Cyclonic vorticity
Kleinschmidt, E. et al., 21.3–463
Pichler, H. et al., 21.6–327
Cyclonic vorticity changes
Brodrick, H. J., Jr., 21.1–400
Cyclonic wind field investigations
Yamashita, A. et al., 21.6–329

D

D-layer
Gassmann, G. J., 21.11–186
Schwentek, H., 21.6–203
D-layer drift
Haug, A., 21.11–188
D-layer formation
Tulinov, V. F. et al., 21.6–420
D-layer ionization
Clark, I. D. et al., 21.10–158
Edwards, P. J. et al., 21.10–163
Ivanov-Kholodnyi, G. S., 21.4–65
Krasovsk, V. I., 21.1–672
Meisel, D. D., 21.6–410
D-region
Burke, R. R., 21.9–151
Fehsenfeld, F. C. et al., 21.9–161
Folkestad, K. et al., 21.9–163
Haug, A., 21.11–189
Jusick, A. T. et al., 21.8–183
Mitra, A. P., 21.6–202
D-region absorption
Chapman, G. E., 21.11–179
Rastogi, R. G., 21.2–77
D-region experiments
Holt, O., 21.9–169
DDT content of snow
Peterle, T. J., 21.8–384
Daily temperature frequency
Brown, D. M., 21.5–84
Daily weather maps
Scherhag, R. et al., 21.7–34
Darcy's Law
Bolt, G. H. et al., 21.1–649
Data acquisition
Giraytys, J. et al., 21.4–20
Data analysis
Gandin, L. S., 21.9–16
Godske, C. L., 21.9–17
Sneyers, R., 21.9–19
Data catalogs
Nicholson, J. R., 21.7–36
Data centers
Fanning, R. W., 21.7–74
Godske, C. L., 21.9–17
Data collection centers
Inter-Union Commission on Solar Terrestrial Physics, 21.8–563
Data collection services
Penny, J. P. et al., 21.9–575
Data processing
Beliaev, I. P. et al., 21.4–5
Bellamy, J. C., 21.4–10
Cook, C. W., 21.9–31
Gandin, L. S., 21.4–6
Smedley, D., 21.11–92R
Data processing computers
Il'in, B. M. et al., 21.7–22
Data processing conferences
WMO Symposium in Asheville, 21.1–129
Data processing of meteorology
Maine, R., 21.5–63
Data processing techniques
Friedman, H. A. et al., 21.7–13
Data processing with electronic computers
Bultot, F., 21.12–48
Church, H. W., 21.1–162
Pimenov, I. A., 21.10–302
Data smoothing techniques
Grote, H. H., 21.11–18
Data storage
Bellamy, J. C., 21.4–10
Lawes, E. F., 21.10–46
Stegall, G. E., 21.9–34
Data transmission
Cook, C. W., 21.9–31
Fanning, R. W., 21.7–74
International Council of Scientific Unions, 21.8–563
Data transmission system
Sumner, E. J., 21.10–98
Dawn chorus
Kleimenova, N., 21.9–457
Dayglow
Evans, D. C. et al., 21.1–447
Noxon, J. F., 21.10–274
Dayglow emission
Dalgarno, A., 21.1–446
Dandekar, B. S., 21.10–477
Hirao, K. et al., 21.8–180
Swider, W., Jr., 21.7–361
U. S. Air Force, OAR, 21.4–364
Dayglow emission bands
Dalgarno, A., 21.7–329
Wallace, L. et al., 21.3–507
Dayglow intensities
Green, A. E. S. et al., 21.7–330
Dayglow theories
Dalgarno, A., 21.1–446
Prasad, S. S., 21.4–367
Daylight effects on plants
Lemon, E. R. et al., 21.6–369
Daytime sky brightness
Evans, D. C. et al., 21.1–447
Raevskiĭ, A. N., 21.2–128
Daytime visibility
Shekhtman, A. N. et al., 21.2–343
Decadal mean temperatures
Konček, M., 21.7–437
Decametric radio emission
Braude, S. Ia. et al., 21.4–464
Deep equatorial currents
Rual, P., 21.4–695
Deep ice thermal structure
Burdecki, F., 21.3–753
Deep scattering layers
Schemainda, R., 21.3–773
Deep sea channels
Grim, P. J., 21.1–729
Deep sea circulation
Meincke, J., 21.2–730
Deep sea instrumentation
Caldwell, D. R. et al., 21.3–781

Deep sea research vessels
  Stewart, H. B., Jr., 21.2–687
Deep sea sensors
  Caldwell, D. R. et al., 21.3–781
Deep sea temperature changes
  Rupp, S. M., 21.2–702
  Spidehenko, A. N., 21.1–253
Deep sea thermometry
  Riel, G. K., 21.6–836
Deep sea tides
  Filloux, J. H., 21.2–693
  Munk, W. H., 21.11–781
Deep space tracking
  Muller, P. M., 21.12–105
Deep water circulation
  Hunkins, K. et al., 21.8–828
  Yasuoka, T., 21.3–795
Deep water mass properties
  Shcherbinin, A. D., 21.8–844
Deep water ocean circulation
  Burkovy, A., 21.4–716
Definitions
  Wooster, W. S., 21.2–711
Degree day calculations
  Williams, G. D. V., 21.12–449
De-icing bibliographies
  Cavan, B. P., 21.11–754
Delta flow measurements
  Smith, W., 21.6–126
Delta hydrology
  Walker, H. J., 21.8–799
Delta ice formation
  Antonov, V. S., 21.4–623
Deltas in inland seas
  Kostiuchenko, V. P. et al., 21.10–557
Dendroclimatology
  Schönwiese, C. D., 21.6–645
Density–geomagnetic relationships
  Carter, V. L. et al., 21.4–36
Denudation
  Carson, M. A., 21.1–650
Depolarization of electromagnetic waves
  Kravtsov, Iu. A., 21.10–489
Depolarization of laser beams
  Cohen, A., 21.7–710
Depolarization of light
  Kravtsov, Iu. A., 21.10–489
Depressions
  Kurtz, E., 21.3–452
Desalinization
  Chan, G. L., 21.11–693
  Faisal, M., 21.8–832
  Hammond, R. P., 21.8–833
  Howe, E. D., 21.8–835
  Hunter, J. A., 21.8–836
  Kamal, I., 21.11–761
  Lonsdale, H. K. et al., 21.8–837
  McCutchan, J. W., 21.1–730
  Morse, R. N., 21.9–640
  Quintela, R. M., 21.9–692
  Valente, N., 21.7–664
  Vilentchuk, I., 21.8–838
  Young, G., 21.6–841
Desalinization of seawater
  Clawson, M. et al., 21.6–840
  Davis, W. K., 21.8–831
  Holtom, H. T., 21.8–834
  The, G. H. et al., 21.9–693
Desalinization techniques
  Burley, M. J. et al., 21.9–689
  Katz, W. E., 21.9–690
  Kronberger, H. et al., 21.9–691
  Sherwood, T. K. et al., 21.2–712
Desalting techniques
  Davis, W. K., 21.8–831
  Hunter, J. A., 21.8–836
  Lonsdale, H. K. et al., 21.8–837
  Vilentchuk, I., 21.8–838
Desert agriculture
  Joshi, K. L., 21.11–463
  Shanan, L. et al., 21.4–394
Desert climates
  Reitan, C. H., 21.2–286
Desert climatology
  Craig, A. K., 21.2–311
Desert ecology
  Craig, A. K., 21.2–311
  Cunningham, G. L. et al., 21.10–458
  McGinnies, W. G. et al. (eds.), 21.3–680
  Strain, B. R., 21.11–476
Desert environment
  Arizona. Univ. Office of Arid Lands Studies, 21.11–36R
Desert formations of India
  Joshi, K. L., 21.11–463
Desert research
  Healy, J. R., 21.2–312
Desert vegetation
  Cunningham, G. L. et al., 21.10–458
  Strain, B. R., 21.11–476
Deserts
  Simons, et al., 21.1–17
Design discharge
  Shestakova, R. A., 21.9–601
  Van Der Made, J. W., 21.6–756
Design flood discharge estimates
  Leskov, G. A., 21.10–700
Design flood discharge estimation
  Ahuja, P. et al., 21.7–784
Design flood estimation
  Bell, F. C. et al., 21.5–650
Design floods
  Alexander, G. N., 21.9–589
  Voskresenskiĭ, K. P., 21.7–782
  Zsuffa, I., 21.10–708
Design rainfall
  Bucuta, E. et al., 21.6–608
  Dhar, O. N. et al., 21.8–395
  Duff, H. W., 21.7–584
Design storms
  Dufresne, R., 21.10–389
  Rostomov, G. D., 21.9–600
Deuterium content of exosphere
  Bruner, E. C., Jr. et al., 21.10–202
Deuterium content of precipitation
  Arnason, B., 21.8–425
Deuterium/hydrogen ratios
  Ehhalt, D. H., 21.12–381
Deuterium in seawater
  Ehhalt, D. H., 21.4–679

Deuterium in snow
Lorius, C. et al., 21.8–427
Deuterium in snow and ice
Arnason, B., 21.8–425
Dew distribution
Huovila, S., 21.5–585
Dew formation
Muller, W., 21.2–250
Dew instruments
Muller, W., 21.2–250
Dew intensities
Rosenberg, N. J., 21.3–644
Dew measurement techniques
Muller, W., 21.2–250
Dew measurements
Huovila, S., 21.5–585
Dew point calculation
Birman, B. A., 21.11–363
Dew point hygrometers
Baird, C. D. et al., 21.9–69
Bisberg, A., 21.12–95
Ruskin, R. E., 21.1–189
Salaruddin, M., 21.6–85
Dew point instruments
Dandaron, Z. D., 21.3–199
Usol'tsev, V. A., 21.5–130
Diabatic cooling
Bullock, B. R. et al., 21.1–535
Diabatic heating
Brahmananda Rao, V., 21.10–237
Holopainen, E. O., 21.4–85
Huss, A. et al., 21.3–431
Shukla, J., 21.7–511
Differential equations
Lindzen, R. S. et al., 21.7–235
Diffraction models
Gelci, R. et al., 21.4–371
Diffuse radiation
Lenoble, J., 21.4–370
Diffuse reflection
Pomraning, G. C., 21.6–690
Diffusion class
Reuter, H., 21.12–254
Diffusion coefficient
Tadmor, J. et al., 21.8–222
Diffusion coefficient determination
Jennings, S. G., 21.12–476
Diffusion equations
De Zorzi, G., 21.11–233
Marmershteĭn, I. I. et al., 21.10–231
Titt, E. W., 21.1–372; 21.6–289
Diffusion estimation
Pasquill, F., 21.1–496
Diffusion forecasting
Randerson, D., 21.7–257
Diffusion formulas
Briggs, G. A., 21.10–226
Lehmann, A., 21.6–488
Diffusion in forests
Meroney, R. N., 21.11–239
Diffusion in surface layer
Csanady, G. T., 21.1–367
Klug, W., 21.1–368
Walters, T. S., 21.4–210
Zeleny, J., 21.7–488
Diffusion models
Fiedler, F., 21.7–250
Luna, R. E. et al., 21.10–329
Marsh, K. J. et al., 21.4–203
Meroney, R. N. et al., 21.1–371
Mery, P., 21.6–286
Randerson, D., 21.7–257
Roberts, J. J. et al., 21.9–196
Simpson, C. L., 21.12–363
Tang, C. M., 21.7–260; 21.11–241
Diffusion of air pollutants
Reuter, H., 21.12–254
Diffusion of gases
Tang, C. M., 21.7–260
Diffusion processes
Berz, G., 21.7–248
Fiedler, F., 21.7–250
Diffusion research
Perlmutter, M., 21.11–237
Van der Hoven, I. (ed.), 21.8–334
Diffusion studies
Cermak, J. E., 21.11–232
Diffusion theories
Assaf, G., 21.12–322
Digital meteorological records
Woodworth, W. C., 21.3–342
Digitized video data
Booth, A. L. et al., 21.5–52
Dipole antennas
Hagn, G. H. et al., 21.9–454
Dipole fields
Davydov, V. M., 21.8–701
Galejs, J., 21.6–684
Dipole radiation
Phillips, R. J., 21.9–495
Direct and diffuse radiation
Bidasio, D., 21.2–114
Direct solar radiation calculations
Jenik, J. et al., 21.7–321
Direct solar radiation intensities
Glagolev, Iu. A. et al., 21.6–355
Direct solar radiation measurements
Murai, K., 21.6–372
Discharge recorder
Pikush, N. V., 21.12–550
Discharges of spring high water
Mokliak, V. I., 21.12–671
Discrete radio sources
Gubbay, J. et al., 21.4–463
Meekins, J. F. et al., 21.4–468
Penzias, A. A. et al., 21.4–469
Discriminant functions
Shmakova, V. S., 21.1–249
Disdrometers
Ward, J. H. et al., 21.1–190
Dishpan experiment
Gibson, T. T. et al., 21.7–271
Dispersion equations
Bodurtha, F. T. et al., 21.6–482
Dissolved gases in sea water
Williams, W. C., 21.2–714
Dissolved oxygen
Davis, R. K., 21.1–3
Dissolved oxygen in sea water
Akiyama, T., 21.5–791
Shonting, D. H., 21.12–772
Diurnal cloud variations
Kostinskaia, B. I., 21.1–599
Mersiianova, A. G., 21.6–591
Diurnal cosmic ray intensities
Simnett, G. M., 21.9–234

Diurnal cosmic ray variations
Barcus, J. R., 21.7–393
Pankratov, A. K. et al., 21.10–301
Quenby, J. J., 21.7–419
Swinson, D. V., 21.7–422
Vladimirskiĭ, B. M. et al., 21.9–235
Diurnal geomagnetic variations
Price, A. T., 21.1–682
Diurnal humidity variations
Beresneva, I. A., 21.7–522
Diurnal ionospheric electron densities
Torr, D. G. et al., 21.9–184
Diurnal ionospheric variations
Kaufmann, P., 21.5–350
Miller, N. J. et al., 21.7–195
Diurnal potential gradient variations
Kline, J. C. et al., 21.8–604
Makhotkin, L. G., 21.8–605
Diurnal precipitation variations
Andersson, T., 21.7–608, –609
Diurnal pressure waves
Longley, R. W., 21.3–579
Diurnal radiation balances
Lingova, St., 21.3–499
Diurnal rainfall variations
Pedgley, D. E., 21.7–610
Diurnal runoff variations
Ronsch, H., 21.3–674
Diurnal salinity variations
Leder, I. Z., 21.9–733
Diurnal sea temperature variations
Leder, I. Z., 21.9–733
Protasov, S. N., 21.7–435
Diurnal soil temperature variations
Taranovskaia, V. N., 21.11–326
Diurnal streamflow variations
Ertel, H., 21.11–427
Diurnal surface inversion variations
Reidat, R., 21.2–197
Diurnal temperature variations
Nekrasova, V. I., 21.2–179
Probald, F., 21.2–180
Protasov, S. N., 21.7–435
Sapozhuikova, S. A. et al., 21.2–181; 21.11–312
Stoenescu, St. M. et al., 21.3–555
Tsigel'nitskiĭ, I. I., 21.11–313
Diurnal thermospheric temperature
Jacchia, L. G., 21.11–320
Diurnal thermospheric variations
Volland, H., 21.6–205
Diurnal thunderstorm variations
Davis, N. E., 21.3–473
Roling, H., 21.6–343
Diurnal upper air density variations
Waldteufel, P., 21.1–273
Diurnal upper air temperature variations
Antonova, L. A. et al., 21.6–455
Diurnal upper air wind variations
Wallace, J. M. et al., 21.3–610
Diurnal upper atmosphere composition variations
Antonova, L. A., et al., 21.6–455
Diurnal variations
Sapozhnikova, S. A., 21.2–301
Diurnal wind regime
Mendonca, B. G., 21.5–508
Diurnal wind variations
Bonner, W. D. et al., 21.10–215
Bruch, A. et al., 21.3–609
Longley, R. W., 21.1–510
Paegle, J., 21.10–333
Reed, R. J. et al., 21.4–242
Skliarov, V. M., 21.10–334
Wallace, J. M. et al., 21.3–610
Woodhead, T., 21.9–261
Diurnal wind velocity variations
Skliarov, V. M., 21.1–511
Divergence calculations
Pechala, F., 21.7–228
Sajnani, P. P., 21.3–436
Divergence forecasting
Datta, R. K. et al., 21.3–226
Dobson spectrophotometer
Else, C. V. et al., 21.6–115
Doppler frequency shift
Atlas, D., 21.3–68
Birkemeier, W. P. et al., 21.9–133
Boyd, G. M., 21.11–171
Croft, T. A., 21.2–407
Herron, T. J. et al., 21.6–226
Doppler radar
Armstrong, G. M., 21.3–210
Boston, R. C. et al., 21.5–56
Lhermitte, R. M., 21.10–321
Miller, G. K., 21.12–31
Peace, R. L., Jr. et al., 21.3–629
Segman, R., 21.8–73
Tatehira, R., 21.10–87R
Doppler radar applications
Lhermitte, R. M., 21.6–44
Doppler radar measurements
Glover, K. M., 21.3–79
Doppler radar thunderstorm measurements
Battan, L. J., 21.7–512
Doppler shift of satellite signals
Bertel, L., 21.7–175
Hopfield, H. S., 21.12–71
Shkol'nikov, V. A., 21.1–675
Doppler shift–radio waves effects
Broche, P., 21.6–222
Doppler techniques
Armstrong, E. B., 21.3–67
Doppler temperatures
Hays, P. B. et al., 21.3–561
Dosimeters
Denham, D. H. et al., 21.1–175
Downdraft effects on rainfall
Das, P., 21.1–540
Downdrafts
Zipser, E. J., 21.3–484

Drag coefficients
Danard, M. B., 21.7–270
Smith, S. D. et al., 21.2–733
Drag on water drops
LeClair, B. P. et al., 21.7–547
Drainage
Black, T. A. et al., 21.6–144
Hanks, R. J. et al., 21.6–752
Komlev, A. M., 21.5–749
Maierhofer, C. R., 21.10–554
Morgan, M. A., 21.1–772
Drainage basin analysis
McCoy, R. M., 21.6–777
Drainage basin hydrology
Faniran, A., 21.1–796
Gupta, S. N. et al., 21.9–584
Kennedy, R. J. et al., 21.9–598
Rastogi, R. A. et al., 21.9–649
Seginer, I., 21.5–763
Trainer, F. W., 21.7–799
Witherspoon, D. F., 21.6–787
Drainage basins
Okunishi, K., 21.11–716
Drainage effects on runoff
Anosova, L. S., 21.11–687
Drainage network
Williams, R. E. et al., 21.7–800
Drainage patterns
Seginer, I., 21.5–763
Drainage planning
Kogan, F. N., 21.7–654
Drainage systems
Bucuta, E. et al., 21.6–608
Minaev, I. V. et al., 21.3–702
Nwa, E. U. et al., 21.7–797
Veldkamp, F. B., 21.6–600
Drainage winds
Bergen, J. D., 21.4–227
Dolganov, L. V., 21.3–614
Drift bottle studies
Okubo, A., 21.4–728
Drift cards experiments
Stander, G. H. et al., 21.4–729
Drift currents
Beliakov, L. N., 21.4–781
Gruzinov, V. M., 21.4–733
Drift ice meteorological stations
ESSA World [Rockville, Md.], 21.6–820
Drift velocity measurements
Morgan, M. et al., 21.8–286
Drifting ice stations
Untersteiner, N., 21.11–755
Drifting snow studies
Oura, H., 21.2–232
Drifting station, Arlis-II
Roulet, R. R., 21.12–410
Drifting station, North Pole-17
Legen'kov, A. P., 21.12–731
Driving rain
Helbig, A., 21.11–388
Driving rain index
Piehl, H. D., 21.10–395
Drogue current measurements
Chew, F. et al., 21.10–822
Drop breakup
Billings, J. J. et al., 21.6–555
Dawson, G. A., 21.5–626
Tanaka, H., 21.6–565
Drop coalescence
Sartor, J. D. et al., 21.6–563
Drop collection efficiency
Megraw, W. J., 21.12–502
Drop formation
Abraham, F. F., 21.8–354
Pueschel, R. F. et al., 21.6–182
Drop growth
Deriagin, B. V., 21.12–496
Mazin, I. P., 21.6–559
Smirnov, V. I., 21.7–549
Drop growth theories
Kunkel, B. A., 21.4–265
Drop impingement
Mok, C. H., 21.4–287
Drop motion
Tanaka, H., 21.6–565
Drop properties
Dufour, L., 21.9–284
Drop shattering
Johnson, D. A., 21.1–560
Drop size distribution instruments
Maze, R., 21.12–98
Drop size measurements
Iuskeselieva, L. G. et al., 21.9–71
Drop velocities
Cataneo, R. et al., 21.9–282
Eaton, L. R., 21.11–367
Droplet evaporation
Aroesty, J. et al., 21.1–558
Droplet growth in clouds
Carstens, J. C., 21.11–374
Dropsonde observations
Sissons, N. V., 21.5–333
Drought
Havens, A. V., 21.8–415
Drought conditions
Niketta, D., 21.4–92
Weedfall, R. O., 21.8–419
Drought damage
United Nations Economic Commission for Asia and the Far East, 21.2–97
Drought effects on crops
Kilen, T. C. et al., 21.8–416
Drought effects on pastures
Whalley, R. D. B. et al., 21.9–322
Drought frequencies
Subrahmanyam, V. P. et al., 21.9–321
Drought indexes
Keetch, J. J., 21.7–617
Weedfall, R. O., 21.8–419
Drought intensities
Subrahmanyam, V. P., 21.9–321
Drought resistance
Kilen, T. C. et al., 21.8–416
Parker, J., 21.8–418
Dry periods
Shveĭkin, Iu. V., 21.9–310
Dry season streamflow in West Africa
Ledger, D. C., 21.12–704
Dry spell forecasting
Kremenskaia, N. L. et al., 21.8–417
Dry spells
Kremenskaia, N. L. et al., 21.8–417

Duration curves
Banerji, S. et al., 21.8–407
Dust bearing winds
Hurst, G. W., 21.4–233
Dust cloud around Earth
Bandermann, L. W., 21.6–691
Fesenkov, V. G., 21.5–692
Kaiser, T. R., 21.4–435
Nazarova, T. N., 21.10–639
Dust content of air
Parkin, D. W., 21.12–252
Zier, M., 21.1–207
Dust content of polar ice
Hamilton, W. L., 21.10–408
Dust content of snow
Hamilton, W. L., 21.10–408
Dust devils
Hallett, J., 21.3–471
Ryan, J. A. et al., 21.5–423
Dust effects on radiation
Peterson, J. T. et al., 21.8–144
Dust fall analysis
Hoidale, G. B. et al., 21.1–296; 21.12–240
Dust falls
Stevenson, C. M., 21.4–229
Dust haze
Vaidyanathan, M., 21.8–576
Dust measurements
Parkin, D. W., 21.12–252
Dust measuring equipment
Benarie, M. et al., 21.6–104
Garbaliauskas, Ch. A. et al., 21.1–203
Zier, M., 21.1–207
Dust sampling
Hoidale, G. B. et al., 21.5–257
Dust storms
Kamra, A. K., 21.3–695
Kharitonova, S. S., 21.3–620
Dust transport
Ferguson, W. S. et al., 21.7–142
Prospero, J. M., 21.12–330
Dust vertical distribution
Idso, S. B., 21.12–241
Dust whirl damage
McGinnigle, J. B., 21.10–251
Dye tracer technique
Chase, E. B., 21.11–682
Meerburg, A. J., 21.10–810
Ozmidov, R. V., 21.9–708
Sharikov, Iu. D., 21.8–847
Sternberg, R. W., 21.9–724
Dynamic climatology
Petrovič, Š., 21.6–667
Dynamic forecasting techniques
McPherson, G. A., 21.11–110
Dynamic instability
Scorer, R. S., 21.10–351
Dynamic meteorology
Bessemoulin, J., 21.3–6
La Valle, L., 21.3–415
Rakipova, L. R., 21.9–67R
Dynamic meteorology textbooks
Dikiĭ, L. A., 21.7–239
Dynamic models
Green, J. S. A., 21.3–411
Dynamic oceanography
Bibik, V. A., 21.2–677
Fel'zenbaum, A. I., 21.4–692
Holt, M., 21.1–6
Lebedev, V. L., 21.7–831
Nature [London], 21.4–425
Reid, R. O., 21.2–731
Turikov, V. G., 21.5–376
Dynamic stability
Popova, T. V., 21.7–232
Dynamics of atmospheric disturbances
Danard, M. B., 21.7–270
Dynamics of atmospheric waves
Kurbatkin, G. P., 21.11–256
Murakami, T., 21.11–258
Dynamo theory
Price, A. T., 21.1–682
Dynamo theory of ionosphere
Pogrebnoi, V. N. et al., 21.5–352

E

E-layer
Schwentek, H., 21.6–203
E-layer disturbances
Chimonas, G., 21.11–180
E-layer drift
Chandra, H. et al., 21.8–169
Haug, A., 21.11–188
E-layer reflection
Butcher, E. C. et al., 21.7–176
E-layer structure
Butcher, E. C., 21.6–223
Rao, U. R., 21.11–205
E-layer winds
MacLeod, M. A., 21.11–20
E-region
Herman, J. R. et al., 21.11–190
Ivanov-Kholodnyĭ, G. S et al., 21.4–64
Keneshea, T. J. et al. 21.7–192
Lane, N. F., 21.1–331
Layzor, D. et al., 21.9–17
Reddy, C. A. et al., 21.10–184
Wand, R. H., 21.6–244
E-region currents
Cole, K. D., 21.8–170
E-region electron density
Cumme, G. A. et al., 21.10–161
E-region irregularities
Fang, D. J., 21.7–181
Hooke, W. H., 21.2–72
E-region wind shear
Hooke, W. H., 21.7–188
E2-layer
Serafimov, K. B., 21.4–67
ELF emission theories
Holtet, J. et al., 21.10–535
ELF measurements
Holtet, J. et al., 21.10–53
ELF radio noise
Wait, J. R., 21.2–389
ELF sferics
Hill, R. D., 21.10–541
Kimpara, A., 21.9–456
ESSA Research Flight Facility
Friedman, H. A. et al., 21.9–42
Earth albedo
Collins, D. G. et al., 21.7–326
Earth brightness
Istomina, L. G., 21.12–416

Earth dust cloud
  Konstantinov, B. P. et al., 21.2–451
Earth–ionosphere cavity resonances
  Ogawa, T., 21.12–306
Earth–ionosphere waveguide
  Galejs, J., 21.6–684
  Kaufmann, P. et al., 21.5–350
  Lacoume, J. L., 21.10–545
Earth microwave emissions
  Dombkovskaia, E. P., 21.5–48
Earth–Moon system
  Cloud, P., Jr., 21.4–471
Earth resources satellites
  Pardoe, G. K. C., 21.3–157
Earth resources survey
  Katz, A. H., 21.4–391
Earth resources technology satellites
  Laing, R. W., 21.12–76
  Otterman, J., 21.12–80
Earth science textbooks
  Marsal, D., 21.10–7
Earth sciences abstracts, Eastern Europe
  U. S. Joint Publications Research Service, 21.9–144R
Earth shine
  Grobecker, A. J., 21.12–427
Earth surface temperatures
  Gorodetskiĭ, A. K. et al., 21.1–168
Earth tide effects
  Ernst, W., 21.6–734
Earth tide observations
  Skalsky, L. et al., 21.2–778
Earth tides
  Melchior, P., 21.4–499
Earthquake effects on well levels
  Cooper, H. H., Jr., 21.12–690
Earthquakes
  Goldthwaite, R. P., 21.3–734
Earthquakes, Alaska (1964)
  National Research Council, Wash., D. C., Div. of Earth Sciences, 21.3–735
  Vorhis, R. C., 21.2–515
  Waller, R. M., 21.2–516
Earth's atmosphere
  McGovern, W. E., 21.1–281
Earth's atmospheric albedo
  Raschke, E., 21.6–365
Earth's bow shock wave
  Cole, K. D., 21.8–262
  Neugebauer, M., 21.7–377
  Olson, J. V. et al., 21.5–737
Earth's magnetic tail
  Hruska, A. et al., 21.5–731
Earth's penumbra
  Chernov, V. M., 21.11–570
Earth's pole movements–wind relationships
  Kruger, H., 21.1–508
Earth's radiance measurements
  Schaper, P. W., 21.11–64
Earth's rotation variations
  Sidorenkov, N. S., 21.1–385
Earth's rotation–wind relationships
  Kruger, H., 21.1–508
Earth's surface albedo
  Korobev, M. G. et al., 21.1–444
Earth's vegetation cover
  Walter, H., 21.1–19
Earth's velocity
  Conklin, E. K., 21.2–404
East Australian current
  Hamon, B. V., 21.2–748
East Korean warm current
  Tanioka, K., 21.4–724
Easterly waves
  Chang, C. P. et al., 21.7–269
  Newman, R. L., 21.3–238
  Saito, N., 21.7–278
Eastropac expeditions
  EASTROPAC Colloquium, La Jolla, Calif., June 9, 1969, 21.4–630
  Miller, F., 21.4–3
Ebro observatory
  Tortosa, Spain, Observatorio del Ebro, 21.8–206
Eclipse effects on F-layer
  Skinner, N. J., 21.8–200
Eclipse effects on ionosphere
  Gassmann, G. J. et al., 21.9–165
  Meisel, D. D., 21.6–410
  Serafimov, K., 21.11–209
  Skinner, N. J., 21.8–200
Eclipse meteorology
  Karapiperis, L. N., 21.9–413
Eclipse–ozone effects
  Osherovich, A. L. et al., 21.9–150
Eclipse phenomena
  Link, F., 21.1–11
Eclipse–solar radiation effects
  Karapiperis, L. N., 21.9–413
Eclipse–VLF effects
  Hoy, R. D., 21.10–542
Eclipse weather probabilities
  Everson, C. E., 21.8–507
Ecoclimatology
  Cooper, C. F., 21.4–32
  Walter, H., 21.1–19
Ecological studies
  Gates, D. M., 21.5–644
  Wooldridge, D. D., 21.7–659
Ecology
  Gates, D. M., 21.10–459
Ecology research
  Facilities for Atmospheric research [Boulder, Colo.], 21.6–663
Economic meteorology
  Seminar on the Role of Meteorological Services, 21.11–14
Economic value of space research
  Steinhoff, E. A., 21.5–687
Economics and agriculture
  Johnson, S. R., 21.12–573
Economics and meteorology
  Arctic Institute of North America, 21.8–532
  Bernard, E. A., 21.1–60
  Cummings, R. L., 21.1–63
  Dřevikovský, A., 21.5–8
  Gibbs, W. J., 21.1–66
  Giovannelli, J. L., 21.1–67
  Mason, B. J., 21.1–71
  Scott, N., 21.1–75
  Sussenberger, E., 21.1–77
  Tolstikov, E. I., 21.1–78

  White, R. M., 21.1–80
  World Meteorological Organization, WMO Bulletin, 21.1–86
Economics of weather forecasts
  Balzer, K., 21.10–118
  Thompson, J. C., 21.1–259; 21.5–148
Ecosystems models
  Facilities for Atmospheric Research [Boulder, Colo.], 21.6–663
Eddy correlation
  Hicks, B. B., 21.5–122
Eddy diffusion determination
  Shimanuki, A., 21.6–505
Eddy diffusivity
  Ewing, J. A. et al., 21.2–747
  Kao, S. K. et al., 21.6–486
  Lettau, H., 21.1–369
Eddy flux measurements
  Brocks, K., 21.7–481
  Israël, H., 21.12–324
  Mitsuta, Y., 21.5–123
Eddy heat flux
  Regener, V. H., 21.7-487
Eddy ozone flux
  Regener, V. H., 21.7–487
Eddy processes
  Reiter, E. R. et al., 21.3–435
Eddy transfer
  Laĭkhtman, D. L. et al., 21.7–254
  Derome, J. F., 21.3–412
Eddy viscosity coefficient determination
  Leith, C. E., 21.5–387
Effective radiation calculation
  Tavartkiladze, K. A., 21.1–432
Effective radiation measurements
  Levenko, A. A., 21.1–95
Eigenvalues
  Hirose, M., 21.12–24
Ekman effect
  Niiler, P. P., 21.6–845
  Silva, Paulo de Castro Moreira da, 21.9–728
Ekman layer
  Kurosaki, A., 21.5–386
  Yamamoto, G. et al., 21.3–591
El Capitan reservoir
  Fast, A. W., 21.4–594
Electric charges on drops
  Berg, T. G. O. et al., 21.7–542
Electric field–droplet effect
  Billings, J. J. et al., 21.6–555
Electric field effects on cloud freezing
  Roulleau, M., 21.8–355
Electric field effects on droplets
  Abbas, M. A. et al., 21.1–621; 21.5–571
  Anderson, F. J., 21.7–541
  Davis, M. H. et al., 21.9–293
  Dawson, G. A., 21.5–626
  Gabarashvili, T. G., 21.12–497
  Latham, J. et al., 21.1–561; 21.5–627; 21.9–294, –295
Electric field measurements
  Oya, H., 21.12–117
Electric field over the ocean
  Muhleisen, R., 21.8–600
  Strong, A. E., 21.2–356
Electric field profiles
  Kohl, D. A., 21.12–528
Electric field theories
  Nikolaev, Iu. M., 21.3–691
Electric field variations
  Harris, D. J., 21.9–425
Electric fields in clouds
  Kasemir, H. W., 21.12–586
Electric potential gradient measurements
  Bhartendu, —, 21.12–583
Electric power–temperature effects
  Johnson, S. R. et al., 21.5–470
Electrical charge separation during freezing
  Johnson, D. A., 21.2–365
Electrical charge transfer on drops
  Sartor, J. et al., 21.2–369
Electrical charges on aerosols
  Boisdron, Y., 21.12–231
  Bricard, J. et al., 21.7
551
  Brock, J. R., 21.12–236
  McGreevy, G., 21.12–588
  Madelaine, G., 21.12–589
  Sekikawa, T. et al., 21.8
647; 21.9–436
Electrical charges on clou drops
  Imianitov, I. M., 21.8–65
  Mordovina, L. S., 21.8–65
  Shiskin, N. S., 21.9–441
Electrical charges on drop
  Abbas, M. A., 21.1–621
  Dawson, G. A., 21.8–652
  Imianitov, I. M., 21.9–43
  Montgomery, D. N. et al
21.9–296
Electrical charges on fo droplets
  Shishkin, N. S., 21.9–44
Electrical charges on graupel
  Takahashi, T., 21.8–649
Electrical charges on hail stones
  Imianitov, I. M., 21.9–43
  Takahashi, T., 21.8–649
Electrical charges on ice particles
  Diachuk, V. A. et al
21.10–499
  Hutchinson, W. C. A
21.8–650
  Odencrantz, F. K. et al
21.8–651
  Ohtake, T., 21.11–509
  Scott, W. D. et al., 21.8
646; 21.9–437
Electrical charges on rain drops
  Ruhnke, L. H., 21.2–368
  Takahashi, T. et al., 21.8
654
Electrical charges on snow flakes
  Hutchinson, W. C. A
21.8–650
  Scott, W. D., 21.9–437
Electrical charging of clouds
  Shishkin, N. S., 21.9–441
Electrical charging of melting ice
  Takahashi, T., 21.8–648

- **Electrical conductivity in clouds**
  - Scott, J. P., 21.6–677
- **Electrical conductivity in Earth's bow shock**
  - Cole, K. D., 21.8–262
- **Electrical conductivity in fog**
  - Burke, T. P. et al., 21.1–574
  - Ferrara, R. et al., 21.1–575
- **Electrical conductivity instruments**
  - Popov, S. G., 21.9–78
  - Scott, J. P., 21.6–677
- **Electrical conductivity measurements**
  - Ishikawa, H. et al., 21.10–56
  - Popov, S. G., 21.9–78
- **Electrical conductivity of air**
  - Burke, T. P. et al., 21.8–612
  - Huzita, A., 21.7–224
- **Electrical discharge–hail relationships**
  - Tomassini, G. et al., 21.2–359
- **Electrical field measurements**
  - Kasemir, H. W., 21.2–358
- **Electrical–precipitation formation effects**
  - Davis, M. H. et al., 21.9–293
  - Krasnogorskaia, N. V., 21.9–301
  - Latham, J., 21.9–294
- **Electrical properties of Moon**
  - Grobman, W. D. et al., 21.9–491
- **Electrical properties of sea ice**
  - Addison, J. R., 21.4–619
  - Bogorodskii, V. V., 21.12–720
- **Electrical temperature sensors**
  - Macan, W. A., III, 21.10–72
- **Electricity of disturbed weather**
  - Anderson, F. J. et al., 21.10–496
- **Electricity of precipitation**
  - Magono, C., 21.9–439
  - Reiter, R., 21.9–440
- **Electrification of aerosols**
  - McGreevy, G., 21.12–588
- **Electrification of air bubbles**
  - Drake, J. C., 21.8–607
- **Electrification of cloud droplets**
  - Adam, J. R. et al., 21.2–363
- **Electrification of clouds**
  - Imianitov, I. M., 21.9–438
  - Kachurin, L. G. et al., 21.2–367
  - Latham, J., 21.9–295
  - Magono, C., 21.9–439
  - Mordovina, L. S., 21.8–653
  - Reiter, R., 21.9–440
  - Ruhnke, L. H., 21.2–368
  - Saunders, C. P. R., 21.7–628
  - Takahashi, T., 21.8–614
- **Electrification of convective clouds**
  - Handman, A. L., 21.7–717
- **Electrification of droplets**
  - Berg, T. G. et al., 21.2–364
- **Electrification of ice**
  - Kikuchi, K., 21.9–665
  - Scott, W. D. et al., 21.1–756
  - Shio, H. et al., 21.9–666
- **Electrification of ice crystals**
  - Berg, T. G. et al., 21.2–364
  - Diachuk, V. A. et al., 21.10–499
- **Electrification of raindrops**
  - Ruhnke, L. H., 21.2–368
- **Electrode effect**
  - Expédition Antarctique Belgo-Néerlandaise, 1964, 21.8–598
- **Electrode effect theory**
  - Muhleisen, R., 21.8–601
- **Electrodynamics**
  - Kulikov, E. L., 21.4–430
- **Electrojet**
  - Afonina, R. G. et al., 21.2–130
- **Electrolytic hygrometers**
  - Baird, C. D. et al., 21.9–69
- **Electromagnetic current meters**
  - Popov, I. K., 21.7–836
- **Electromagnetic fluctuation**
  - Chauzy, S. et al., 21.3–389
- **Electromagnetic prospecting**
  - Phillips, R. J., 21.9–495
- **Electromagnetic water current measurements**
  - Fonarev, G. A. et al., 21.2–695
- **Electromagnetic wave interaction in plasma**
  - Gil'denburg, V. B. et al., 21.9–464
- **Electromagnetic wave polarization**
  - Gusev, V. D. et al., 21.8–591
- **Electromagnetic wave propagation**
  - Al'tgauzen, N. M., 21.8–698
  - Falcone, V. J., Jr. et al., 21.10–570
  - Gul'el'mi, A. V., 21.1–665
  - Herbert, J. O., Jr. et al., 21.4–77
  - King, R. J., 21.1–666
- **Electromagnetic wave reflection**
  - Zhukovskiĭ, A. P., 21.10–571
- **Electromagnetic wave scattering**
  - Kerker, M., 21.8–572
  - Makhan'kov, V. G. et al., 21.5–359
  - Shukovskiĭ, A. P., 21.10–578
- **Electron absorption in plasma**
  - Ramaty, R., 21.10–579
- **Electron acceleration**
  - Boischot, A. et al., 21.2–421
- **Electron counters**
  - Whipple, E. C., Jr., 21.2–155
- **Electron density**
  - Mayr, H. G. et al., 21.6–236
- **Electron density changes**
  - Rowe, J. N., 21.3–355
- **Electron density determination**
  - Bain, W. C., 21.2–64

- **Electron density distribution**
  - Wang, K., 21.8–610
- **Electron density in D-region**
  - Beer, T. I., 21.8–161
  - Christie, A. D., 21.6–224
  - Jusick, A. T. et al., 21.8–183
  - Thomas, L. et al., 21.6–241
- **Electron density in E-layer**
  - Rao, U. R., 21.11–205
- **Electron density in F-layers**
  - Skinner, N. J., 21.8–200
- **Electron density in F-region**
  - Mal'tseva, O. A., 21.12–304
  - Rüster, R., 21.9–179
- **Electron density in F2-region**
  - Fatkullin, M. N. et al., 21.8–174
  - Fritz, J. H. et al., 21.9–164
  - Georges, T. M., 21.9–166
  - Kozlov, S. I., 21.9–173
- **Electron density profiles**
  - Bencze, P., 21.11–504
  - Schaffert, U., 21.1–335
- **Electron density measurements**
  - Tuan, T. F., 21.3–522
- **Electron diffusion**
  - Walt, M. et al., 21.10–523
- **Electron distribution**
  - Molodenskii, N. M., 21.1–663
- **Electron energy spectrum**
  - Bernstein, W. et al., 21.11–289
  - Khare, S. P., 21.8–280
- **Electron flux measurements**
  - Begus, V. A. et al., 21.5–459
- **Electron heating**
  - Lanzerotti, L. J. et al., 21.4–153
- **Electron microscope studies**
  - Cross, J. D., 21.6–802
- **Electron precipitation**
  - Eather, R. H., 21.7–350
  - Imhof, W. L. et al., 21.8–275
- **Electron precipitation–ionosphere effects**
  - Yuan, F. F. F. et al., 21.8–303
- **Electron scattering effects**
  - Rosendhal, J. D., 21.4–424
- **Electronic barometer**
  - *Facilities for Atmospheric Research* [Boulder, Colo.], 21.3–189
- **Electronic computer application to satellite cloud analysis**
  - Shaimardanov, M. Z., 21.12–43
- **Electronic computer applications**
  - Brown, S. C., 21.7–575
  - Descamps, V. J., 21.2–340
  - Petrushevskiĭ, V. A. et al., 21.1–119
- **Electronic computer applications in meteorology**
  - Perry, J. S., 21.1–72
- **Electronic computer applications to hydrology**
  - Chekushkina, T. A., 21.12–669
  - Sokolovskiĭ, D. L., 21.7–781
  - Warnick, E. B., 21.8–775
- **Electronic computer applications to tidal data analysis**
  - Shipley, A. M., 21.1–750
- **Electronic computer forecasting**
  - Maine, R., 21.5–63
- **Electronic computer programs**
  - Barghausen, A. F., 21.3–370
  - Brown, K. W. et al., 21.9–30
  - Glahn, H. R. et al., 21.5–184
  - Haines, D. A., 21.1–437
  - Lloyd, K. H., 21.10–273
  - Maynard, H. W., 21.12–25
  - Peskoff, A. et al., 21.10–327
  - Sweers, H. E., 21.12–713
  - Titt, E. W., 21.1–372
- **Electronic computers**
  - Besleaga, N., 21.3–228
  - Friedman, H. A. et al., 21.7–13
  - Maine, R., 21.3–224
  - Perry, J. S., 21.1–72
- **Electronic data processing**
  - Glahn, H. R. et al., 21.5–152
- **Electronic measurement techniques**
  - Stoian, R. et al., 21.3–217
- **Electronic objective analysis**
  - Glahn, H. R., 21.5–152
- **Electronics in ice**
  - Eiben, K., 21.6–803
- **Electrostatic analyzers**
  - Khokhlov, M. Z. et al., 21.4–152
- **Electrostatic conferences**
  - Vonnegut, B., 21.3–688
- **Electrostatic fluxmeters**
  - Sula, E. V., 21.7–67
  - Tammet, Kh. F., 21.7–68
- **Elementary climatology textbooks**
  - Neuberger, H. et al., 21.8–501
- **Elementary meteorology textbooks**
  - Bolin, B., 21.9–2
  - Day, J. A., 21.10–1
  - Hidors, J. J., 21.2–2
- ***Eltanin* cruises**
  - Gordon, A. L., 21.4–643
- **Emission line 3914 Å**
  - Alcayde, D., 21.7–348
  - Joki, E. G., 21.11–517
  - Khare, S. P., 21.8–280
- **Emission line 5577 Å**
  - Alcayde, D., 21.7–348
  - Brenton, J. G. et al., 21.8–244
  - Dachs, J., 21.6–388
  - Dandekar, B. S., 21.10–477
  - Harrison, A. W., 21.11–532
  - Lagos, C. P., 21.7–356
  - McConkey, J. W., 21.11–533
  - Murcray, W. B., 21.11–536
  - Shapiro, R., 21.8–252
- **Emission line 6300 Å**
  - Carman, E. H. et al., 21.8–245
  - Cogger, L. L. et al., 21.6–386
  - Eather, R. H., 21.11–514

Ingham, M. F., 21.7–355
Murcray, W. B., 21.11–536
Nasyrov, G. A., 21.11–288
Norton, R. B. et al., 21.10–518
Okuda, M. et al., 21.7–359; 21.8–251
Roach, F. E., 21.7–360
Tarasova, T. M., 21.8–254
Torr, M. R. et al., 21.8–255

Emission line λ 5876
Stoffregen, W., 21.11–539

Enclosed Cryscondenser for Air Recovery (ENCAR) Project
NCAR Quarterly [Boulder, Colo.], 21.7–162

Energetic electrons in Van Allen zone
Rao, C. S. R., 21.9–448

Energy balance
Bell, B., 21.6–262
Budiko, M. I., 21.12–562
Terjung, W. H., 21.6–666; 21.11–223
Vinnikov, K. Ia., 21.12–407

Energy balance measurements
Terjung, W. H., 21.7–698

Energy balance of Arctic
Vowinckel, E. et al., 21.5–367

Energy balance of atmosphere
Ignatiushina, E. N., 21.11–254

Energy balance of upper atmosphere
London, J., 21.8–154
Tulinov, V. F., 21.11–224

Energy budget
Berz, G., 21.7–248
Fortak, H., 21.6–266
Hastenrath, S. L., 21.5–398, –399; 21.7–273
Holopainen, E. O., 21.4–85; 21.6–270
Pugsley, W. I., 21.11–222
Smith, P. J. et al., 21.5–406, –407
Van Eimern, J., 21.7–696
Vowinckel, E., 21.9–210

Energy budget analysis
Gates, D. M., 21.5–644

Energy budget of animals
Porter, W. P., 21.6–658

Energy conversions
Smith, P. J., 21.12–352

Energy exchange leaves–atmosphere
Aston, A. R. et al., 21.5–428

Energy flux
MacKinnon, R. F., 21.4–86
Murray, R. et al., 21.1–393
Warren, F. W. G., 21.4–88

Energy flux in standing waves
Newell, R. E. et al., 21.1–384

Energy spectrometer
Bernstein, W. et al., 21.11–512

Energy transfer
Carleton, N. P., 21.3–383
Lesko, R. et al., 21.6–429

Environment control
Advances in Environmental Sciences and Technology, 21.12–225
American Chemical Society, 21.5–234
Cantu, V., 21.8–117
Commoner, B., 21.5–242
Crafts, E. C., 21.8–135

Energy transfer
Reiter, E. R., 21.9–201
Yanai, M. et al., 21.4–94

Energy transport
Jones, W. L., 21.5–373

Engineering hydrology
Wilson, E. M., 21.1–20

English barometers
Goodison, N., 21.1–4

Enthalpy
Environmental Science and technology [Wash., D. C.], 21.8–137
Langlois, W. E., 21.3–454
Maunder, W. J. et al., 21.5–270
Nature [London], 21.2–51
Tunney, J., 21.12–267
U. S. Congress. House, 21.8–151
U. S. President's Council on Recreation and Natural Beauty, 21.4–414

Environment remote sensing
Staelin, D. H., 21.6–36
Westwater, E. R. et al., 21.6–38

Environmental contaminants
Voege, F. A. et al., 21.4–411

Environmental control
Beggess, W. R., 21.1–285
Fox, I. K., 21.1–294
McGauhey, P. H., 21.1–301

Environmental health symposia
Wilson, B. R., 21.1–35

Environmental influences
Fox, I. K., 21.1–294
Iltis, H. H. et al., 21.8–547

Environmental influences on space vehicles
Daniels, G. E., 21.5–666

Environmental isotope data
International Atomic Energy Agency, Vienna, 21.1–40

Environmental physiology
Beggess, W. R., 21.1–285

Environmental pollution
American Chemical Society, 21.5–234
Commoner, B., 21.5–242

Environmental preservation prerequisites
Bundy, M., 21.11–157

Environmental radioactivity
Woodwell, G. M., 21.5–305

Environmental science education
Singer, S. F., 21.3–26

Environmental science research and development
U. S. Environmental Science Services Administration, 21.10–24

Environmental science services
U. S. Environmental Science Services Administration, 21.10–24

Environmental Science Services Administration
U. S. National Environmental Satellite Center, 21.1–157
U. S. Environmental Science Services Adminis-

tration, 21.5–23; 21.10–24

Environmental sciences
- Advances in Environmental Sciences and Technology, 21.12–225
- Metcalf, R. L., 21.12–248
- *Nature* [London], 21.2–51
- Singer, S. F., 21.3–26

Environmental sciences research
- U. S. Air Force. Office of Aerospace Research, 21.10–54R

Environmental studies, Israel
- Creasi, V. J., 21.10–65R

Environmental studies, Middle East
- Creasi, V. J., 21.10–64R

Environmental surveys
- International Commission for the Northwest Atlantic Fisheries, Dartmouth, Nova Scotia, 21.12–14

Environmental terminology
- Gillard, A., 21.9–365

Environmental test chambers
- George, D. H., 21.4–348

Epilimnion
- Parker, M. et al., 21.4–599

Equations of dynamic meteorology
- Efimov, V. A., 21.5–371
- Robert, A. J. et al., 21.5–365
- Turikov, V. G., 21.5–376

Equations of motion
- Griesseier, H., 21.6–277
- Lucke, O. et al., 21.10–263
- Sadokov, V. P., 21.2–85
- Walshaw, C. D., 21.10–220

Equations of state of sea-water
- Mamaev, O. I. et al., 21.10–808

Equatorial anticyclone
- Fujita, T. T., 21.3–485

Equatorial circulation
- Hastenrath, S., 21.7–272
- Krueger, A. F. et al., 21.6–296

Equatorial currents
- Nitta, T. et al., 21.3–422
- Ostlund, H. G., 21.2–719

Equatorial disturbances
- Sawyer, J. S., 21.10–245
- Zipser, E. J., 21.3–484

Equatorial electrojet
- Closs, R. L., 21.12–293
- Gassmann, G. J. et al., 21.9–165
- Sugiura, M. et al., 21.11–211

Equatorial F2-layer
- Goldberg, R. A., 21.10–165

Equatorial heat transfer
- Henning, D., 21.3–442

Equatorial ionosphere
- Anufrieva, T. A. et al., 21.10–151
- Goncharov, L. P., 21.12–298
- Titheridge, J. E. et al., 21.8–203

Equatorial mesospheric winds
- Miers, B. T., 21.7–505

Equatorial ocean currents
- Sarkisian, A. S., 21.4–731

Equatorial pressure gradients
- Romanov, Iu. A. et al., 21.3–602

Equatorial stratospheric winds
- Bugaev, V. A. et al., 21.5–519
- Maede, H., 21.10–343

Equatorial undercurrent
- Hisard, P., 21.2–755
- Matthäus, W., 21.10–819
- Neumann, G., 21.4–718
- Rinkel, M. O., 21.4–720
- Sarkisian, A. S., 21.4–731
- Voigt, K. et al., 21.3–774

Equatorial westerlies, East Africa
- Nakamura, K., 21.11–91R

Equatorial winds
- Griesseier, H., 21.6–277
- Romanov, Iu. A. et al., 21.3–602

Equinox precession influences
- Emiliani, C., 21.9–679

Equipotential surface
- Feussner, K., 21.6–265

Equivalent potential temperature
- Madden, R. A. et al., 21.8–216

Erosion of materials
- Mok, C. H., 21.4–287

Eskers
- De Geer, J., 21.4–540

Estuarine currents
- Cannon, G. A., 21.4–790

Estuarine diffusion
- Higuchi, H., 21.12–761

Estuarine hydrography
- Davis, R. K., 21.1–3

Estuarine hydrology
- Ivanov, V. V., 21.9–45R
- Simonov, A. I., 21.11–789

Estuarine mixing
- Boicourt, W., 21.4–789
- Conomos, T. J. et al., 21.1–755
- Simonov, A. I., 21.11–789

Estuarine pollution
- Nelson, G., 21.4–671
- Porges, R., 21.10–758
- Wastler, T. A., 21.4–793
- Zeitoun, M. A. et al., 21.2–715

Estuarine salinity
- Boicourt, W., 21.4–789

Estuarine studies
- Beverage, J. P. et al., 21.6–785

Eulerian correlations
- Kirschner, H. J., 21.4–193

European Space Research Organization
- Clark, D. D. et al., 21.4–18

Eutrophication
- Bernhardt, H., 21.9–662

Evaporation
- Barry, R. G., 21.1–552
- Konstantinov, A. R., 21.1–554

Evaporation at sea
- Schooley, A. H., 21.5–567

Evaporation calculations
- Kleshchenko, A. D., 21.5–560; 21.9–279
- Kuz'min, P. P. et al., 21.6–542
- Richter, D., 21.10–364
- Vil'kens, A. A. et al., 21.2–247
- Yu, S. L., 21.4–262

Evaporation charts
Aune, B., 21.4–256
Evaporation distribution
Australia. Bureau of Meteorology, 21.4–257
Jaworski, J., 21.2–243
Konstantinov, A. R. et al., 21.2–244
Kuz'min, P. P. et al., 21.7–533
Evaporation estimation
Lapshova, L. P., 21.9–51R
Louw, W. J. et al., 21.5–563
Morton, F. I., 21.7–534
Evaporation formulas
Raspopin, G. A., 21.6–548
Evaporation from catchments
Beczely, G., 21.4–282
Evaporation from cotton fields
Chapovskaia, E. V., 21.5–557
Evaporation from crop covered soils
Kleshchenko, A. D., 21.5–560
Evaporation from crops
Kharchenko, K. I., 21.7–530
Kleshchenko, A. D., 21.9–279
Vangelov, A., 21.2–246
Evaporation from field crops
Astakhova, N. I., 21.12–491
Evaporation from fields
Kuz'min, P. P. et al., 21.6–542
Vershinin, A. P., 21.9–282
Evaporation from high mountains
Sosedov, I. S. et al., 21.6–550
Evaporation from irrigated fields
Chapovskaia, E. V. et al., 21.5–557; 21.7–527
Nesina, L. V., 21.8–315
Evaporation from lakes
Bean, B. R. et al., 21.6–539
Crow, F. R., 21.9–277
Kornienko, V. I., 21.8–421
Marlatt, W. E. et al., 21.6–468
Richter, D., 21.10–364
Yu, S. L. et al., 21.7–540
Evaporation from land surfaces
Kuznetsov, V. I., 21.6–543
Evaporation from plant cover
Minaeva, E. N., 21.9–281
Evaporation from plants
Cowan, I. R., 21.1–50
Evaporation from reservoirs
Bester, M., 21.8–348
Grozier, R. U., 21.10–54
Evaporation from river basins
Gel'bukh, T. M., 21.7–528
Kuznetsov, V. I., 21.6–543
Evaporation from seas
Abakarov, M. I., 21.7–524
Reshetova, O. V., 21.9–260
Evaporation from soil
Abramova, M. M., 21.5–551
Acharya, C. L. et al., 21.5–552
Blagoveshchenskiĭ, E. N., 21.7–525
Bresler, E., 21.7–526
Churaev, N. V., 21.11–365
Hanks, R. J. et al., 21.6–752
Kirsta, B. T., 21.7–531
Koleva, St. et al., 21.10–362
Plitkin, G. A., 21.7–535
Varga Haszonits, Z., 21.9–361
Zamammurad, Kh. et al., 21.10–439
Evaporation from water surfaces
Brutsaert, W. et al., 21.5–555
Chamberlain, A. C., 21.1–490
Gel'bukh, T. M., 21.7–528
Raspopin, G. A., 21.6–546
Research Trends [Buffalo, N.Y.], 21.6–553
Rossi, G., 21.8–352
Vil'kens, A. A. et al., 21.2–247
Evaporation horizontal variations
Vershinin, A. P., 21.9–282
Evaporation instrument supports
Grozier, R. U., 21.10–54
Evaporation instruments
Barry, R. G., 21.1–552
Bosua, T. A., 21.3–180
Brockamp, B., 21.12–97
Rossi, G., 21.8–352
Evaporation investigations
Schooley, A. H., 21.5–567
Evaporation measurement techniques
Bean, B. R. et al., 21.6–539
Brockchamp, B., 21.12–97
Evaporation measurements
Aune, B., 21.4–256
Charoen-Rajapark, C., 21.8–349
Kozhevnikov, V. P., 21.7–532
Levenko, A. A., 21.1–95
Evaporation models
Morton, F. I., 21.7–534
Evaporation nomograms
Shcherbak, L. V., 21.2–245
Evaporation of dew
Waggoner, P. E. et al., 21.6–552
Evaporation of droplets
Dawson, G. A., 21.5–626
Vergez, M., 21.10–376
Evaporation of seawater
Reifman, R. L., 21.4–633
Evaporation pans
Rossi, G., 21.8–352
Evaporation–precipitation relationships
Kornienko, V. I., 21.8–421
Evaporation rate
Konstantinov, A. R., 21.12–492
Evaporation reduction
Pushkarev, V. F. et al., 21.6–545
Evaporation regime
Astokhova, N. I. et al., 21.2–240
Evaporation–runoff relationships
Moore, J. C., 21.9–617
Evaporation–soil moisture relationships
Bresler, E., 21.7–526
Koleva, St. et al., 21.10–362
Shcherbak, I. V., 21.2–245

- **Evaporation suppression**
  - Bean, B. R. et al., 21.6–539
  - Bester, M. D., 21.8–348
  - Crow, F. R., 21.9–277
  - Kulikov, Iu. N., 21.11–366
  - Mansfield, W. W., 21.8–351
- **Evaporation variations**
  - Konstantinov, A. R., 21.2–244
- **Evaporation–wave height relationship**
  - *Research Trends* [Buffalo, N.Y.], 21.6–553
- **Evaporimeter comparisons**
  - Omar, M. H., 21.10–363
- **Evapotranspiration**
  - Barry, R. G., 21.1–552
  - Gerber, J. F., 21.8–350
- **Evapotranspiration calculation**
  - Grigor'eva, L. K., 21.2–242
  - Plitkin, G. A., 21.7–535
- **Evapotranspiration–climate relationships**
  - Ravelli, F. et al., 21.5–565
- **Evapotranspiration–crop relationships**
  - Hanks, R. J. et al., 21.9–278
  - Stewart, E. H. et al., 21.8–353
- **Evapotranspiration determinations**
  - Kuz'min, P. P. et al., 21.5–561
- **Evapotranspiration estimation**
  - Brock, E. B., 21.5–545
  - Chidley, T. R. E. et al., 21.10–359
  - Mustonen, S. E., 21.1–555
  - Rosenberg, N. J., 21.7–536
- **Evapotranspiration from alfalfa**
  - Rosenberg, N. J., 21.7–536
- **Evapotranspiration from cotton fields**
  - Vanichkina, S. I., 21.7–539
- **Evapotranspiration from crops**
  - Jensen, M. E., 21.7–529
  - Kharchenko, K. I., 21.7–530
  - Kulikov, Iu. N., 21.11–366
  - Luebs, R. E. et al., 21.8–679
  - Nix, H. A. et al., 21.9–358
  - Plaut, Z., 21.10–437
  - Rosenberg, N. J., 21.6–547
  - Wangati, F. J., 21.9–362
- **Evapotranspiration from forests**
  - Hibbert, A. R., 21.8–455
  - Rutter, A. J., 21.6–548
- **Evapotranspiration from grass**
  - Hibbert, A. R., 21.8–455
  - Tovey, R. et al., 21.7–538
- **Evapotranspiration from irrigated fields**
  - Budagovskiĭ, A. I. et al., 21.5–556
  - Seginer, I., 21.5–568
- **Evapotranspiration from plants**
  - Tanner, C. B., 21.7–537
- **Evapotranspiration from soil**
  - Aidarov, I. P., 21.5–554
  - Prill, R. C., 21.2–564
  - Qashu, H. K., 21.5–656
  - Tanner, C. B., 21.7–537
- **Evapotranspiration from tea**
  - Dagg, M. et al., 21.9–354
  - Willatt, S. T., 21.9–363
- **Evapotranspiration losses**
  - Lettau, H., 21.6–544
- **Evapotranspiration measurement techniques**
  - Reitan, C. H., 21.2–286
- **Evapotranspiration modification**
  - Hart, G. E., 21.5–654
- **Evapotranspiration–precipitation relationships**
  - Ojo, O., 21.5–564
- **Evapotranspiration reduction**
  - Gangopadhyaya, M. et al., 21.5–558
  - Seginer, I., 21.5–568
- **Evapotranspiration regime of land masses**
  - Kuz'min, P. P. et al., 21.5–562
- **Evapotranspiration–soil moisture relationships**
  - Baier, W., 21.6–629
  - Hart, G. E., 21.5–654
  - Stewart, E. H. et al., 21.8–353
  - Veredchenko, Iu. P., 21.8–498
- **Evapotranspiration studies**
  - Rijtema, P. E. et al., 21.5–566
- **Evapotranspiration tent**
  - Mace, A. C., Jr. et al., 21.9–280
- **Evershed effect**
  - Altschuler, M. D. et al., 21.1–691
- **Exchange coefficient**
  - Berz, G., 21.10–214
- **Exchange coefficient calculations**
  - Berz, G., 21.7–248
  - Patrichi, F. et al., 21.4–205
- **Exospheric composition**
  - Keating, G. M., 21.6–250
- **Exospheric density**
  - Keating, G. M., 21.6–250
- **Exospheric density variations**
  - Cook, G. E., 21.12–205, –315
- **Exospheric electron density**
  - Thomas, J. O. et al., 21.1–332
- **Exospheric ionization**
  - Taylor, H. A., Jr. et al., 21.10–493
- **Exospheric plasma**
  - Thomas, J. O. et al., 21.1–332; 21.12–317
- **Exospheric radio wave propagation**
  - Hayakawa, M. et al., 21.10–203
- **Exospheric temperatures**
  - Carru, H. et al., 21.9–250
  - Hays, P. B. et al., 21.3–561
  - McGovern, W. E., 21.1–281
- **Expedition reports**
  - Polish Spitsbergen Expeditions, 21.4–1
  - Siedlecki, S., 21.9–39
- **Expeditionary meteorological data**
  - Lieurance, N. A., 21.5–75
- **Experimental watersheds**
  - Glymph, L. M. et al., 21.10–680

Explosive AgI–NaCl cords
Goyer, G. G., 21.11–138
Explosive rockets hail experiments
Sansom, H. W., 21.5–209
Extended forecasting
Smagorinsky, J., 21.3–275
Extended forecasting evaluation
Koppany, G., 21.12–172
Extended forecasting models
Miyakoda, K. et al., 21.3–274
Extended forecasting studies
Fuks-Rabinovich, M. S., 21.3–271
Extended lunar flights
Lowman, P. D., Jr., 21.6–695
Extensive air showers
Babaian, Kh. P. et al., 21.7–391
Bray, A. D., 21.10–531
Dedenko, L. G., 21.7–402, –403
Earnshaw, J. C. et al., 21.7–404
Fegan, D. J. et al., 21.10–534
Maze, R. et al., 21.7–415
Extinction coefficient
Ivanov, A. P. et al., 21.9–416
Extrapolation
Sloan, L. J. et al., 21.9–83
Extrapolation of aerological data
Komarov, V. S., 21.11–27
Extreme ultraviolet measurements
Underwood, J. H., 21.3–187
Extreme ultraviolet radiation during solar flares
Donnelly, R. F., 21.9–541
Extreme ultraviolet solar spectrum
Burton, W. M., 21.5–721
Extreme upper air winds
Kantor, A. J., 21.5–518
Extreme value estimation
Jenkinson, A. F., 21.10–418
Extreme value theories
Huxham, S. H. et al., 21.7–780
Extreme winds
Sharma, B. L., 21.7–498

F

F-layer
Bates, H. F. et al., 21.7–174
Vasseur, G. et al., 21.9–186
F-layer critical frequencies
Petrie, L. E. et al., 21.10–178
F-layer diffusion
Giles, M. et al., 21.7–183
F-layer drift
Chandra, H. et al., 21.8–169
Kohl, H., 21.6–232
Rüster, R., 21.10–185
F-layer height
Anufrieva, T. A. et al., 21.10–151
F-layer ionization
Georges, T. M., 21.9–166
Kochenova, N. A., 21.11–194
Kohl, H., 21.6–232
Muggleton, L. M., 21.7–197
F-layer phenomena
King, J. W., 21.10–172
F-layers electron density
Herzberg, L. et al., 21.7–186
F-region
Bramley, E. N., 21.8–167
Bratteng, O. M. et al., 21.1–330
Drobzhev, V. I., et al., 21.5–343
Herman, J. R. et al., 21.11–190
King, J. W., 21.10–172
Klimov, N. N. et al., 21.8–186
Klostermeyer, J., 21.9–172
Mizun, Iu. G., 21.9–233
Peterson, V. L. et al., 21.6–237
Roach, F. E., 21.7–360
F-region irregularities
Baggaley, W. J., 21.7–172
Calvert, W., 21.10–156
Dearden, E. W., 21.6–225; 21.11–181
Elkins, T. J., 21.10–164
Singleton, G. D., 21.11–21
F-region winds
Kohl, H., 21.6–232
F1-layer
Evans, J. V. et al., 21.7–180
F1-layer drift
Giles, M. et al., 21.7–183
F1-layer formation
Shchepkin, L. A., 21.10–189
F2 anomalies
Abur-Robb, M. F. K., 21.3–368
F2-layer
Boenkova, N. M., 21.10–8R
F2-layer asymmetry
Gorinov, N., 21.4–63
F2-layer critical frequencies
Challiner, R. A., 21.2–67
Grosheva, N. M., 21.12–301
F2-layer disturbance–magnetic activity relationship
Khocholava, G. M., 21.11–193
F2-layer disturbances
Baker, D. M. et al., 21.7–173
Khocholava, G. M., 21.11–193
F2-layer disturbances–geomagnetic storm relationships
Jani, K. G. et al., 21.8–181
F2-layer drifts
Sterling, D. L. et al., 21.7–204
F2-layer formation
Poliakov, V. M., 21.10–179
F2-layer height variations
Bullen, J. M., 21.10–155
Challiner, R. A., 21.2–67
F2-layer inhomogeneities
Troitskiĭ, B. V., 21.3–381
F2-layer ionization
Besprozvannaia, A. A., 21.2–65; 21.10–154
Besprozvannaia, A. S., 21.12–292
F2-layer variation
Dunford, E., 21.3–374

F2-region
  Mayr, H. G. et al., 21.6–236
F2-region anomalies
  Fritz, J. H. et al., 21.9–164
  Kozlov, S. I., 21.9–173
foEs
  Rawer, K., 21.10–183
foF2 distribution
  Ben'kova, N. P., 21.12–291
  Dvinskikh, N. I. et al., 21.9–156
  Hooper, A. W., 21.7–190
  T'eng, C. H., 21.5–355
foF2 variations
  Ben'kova, N., 21.6–219
  Dvinskikh, N. I. et al., 21.9–156
  Khocholava, G. M., 21.12–302
  Kiianovskiĭ, M. P. et al., 21.10–171
  Rajaram, G., 21.11–204
  T'eng, C. H., 21.5–355
Fabry–Perot interferometer
  Rudnev, Iu. I. et al., 21.8–573
Facsimile weather map transmission
  Newman, L. W., 21.10–96
Falling sphere method
  Daniel, O. H., 21.11–24
  Johnson, S. G., 21.10–342
  Jones, L. M., 21.9–23
  Staffanson, F. L., 21.11–28
  U. S. National Aeronautics and Space Administration, 21.11–29
  Westlund, C. D., 21.12–208
Falling sphere soundings
  Pearson, P. H. O., 21.3–126; 21.11–61
  Wright, J. B., 21.12–35
Fallout program, U.S.A.
  U. S. Atomic Energy Commission, 21.9–236R, –237R
Far infrared radiation transmission
  Eddy, J. A., 21.4–138
Far infrared region
  Houck, J. R., et al., 21.8–248; 21.10–278
Far infrared sky surveys
  Woolf, N. J. et al., 21.7–741
Far-ultraviolet auroras spectra
  Opal, C. B. et al., 21.10–520
Faraday effect on satellite radio transmission
  Smith, D. H., 21.8–201
Faraday effects
  Tyagi, T. R., 21.3–165
Faraday rotation effects
  Levy, G. S., 21.11–646
  Rubio, R., 21.2–78
  Thomas, G., 21.8–204
Farm management
  Campbell, D. A., 21.9–611
  Holloway, J. T., 21.9–614
Fast neutrons
  Sandie, W. G. et al., 21.7–344
Federal Water Pollution Control
  DeCamp, L. E., 21.4–412
Ferihegy airport
  Kapovits, A., 21.3–87
Fertilizer–crop yield effects
  Lal, R. et al., 21.8–490
Field forecasts, 500-mb
  Zverev, N. I., 21.11–122
Field mills
  Layton, R. G. et al., 21.7–46
  Parfitt, G. G., 21.6–113
Finite-difference methods
  Popova, T. V., 21.7–232
Finsterwalder, Richard, obituary
  Vietoris, L., 21.3–751
Fire behavior studies
  Schroeder, M. J. et al., 21.1–57
  Williams, D. T., 21.1–509
Fire control
  Davis, R. T., 21.6–150
Fire effects on plants
  Old, S. M., 21.7–678
Fire–rainfall effects
  Holle, R., 21.12–201
Fire weather
  Keetch, J. J., 21.7–617
  Schroeder, M. J. et al., 21.1–57, –478
Fire weather conditions
  Sando, R. W., 21.9–263
Fire weather forecasting
  Davis, R. T., 21.6–150
Firn studies
  Wakahama, G. et al., 21.8–446
Fisheries and meteorology
  Darchen, J., 21.9–4
  Walden, H., 21.11–17
Fisheries research
  Bowley, C. J. et al., 21.4–403
  Chile. Instituto de Fomento Pesquero, Santiago de Chile, 21.2–678
  International Commission for the Northwest Atlantic Fisheries, Dartmouth, Nova Scotia, 21.12–14
Fisheries weather forecasting
  Darchen, J., 21.9–4
Fishing resources
  Symposium on the Oceanography and Fisheries Resources of the Tropical Atlantic, Abidjan, Ivory Coast, Oct. 20–28, 1966, 21.3–763
Fjord oceanography
  Keys, J. et al., 21.4–787
Flash Flood Alarm System (FFAS)
  Davis, K. W. et al., 21.2–276
Flash flood forecasting
  U. S. Environmental Science Services Administration, 21.9–606
Fleet Numerical Weather Facility, Monterey, Calif.
  Devillaz, E., 21.6–2
Flight planning
  Bengtsson, L., 21.10–119
Flight weather analysis
  Buck, R. N., 21.11–4
Flood analysis
  Jenkinson, A. F., 21.10–418
  Martens, L. A., 21.2–277
Flood calculation
  Chebotarev, A. I. et al., 21.9–592
  Glazyrin, G. E., 21.9–34R
  Gupta, S. N. et al., 21.9–584
  Levin, A. G., 21.7–645

Tryselius, O., 21.10–706
Vinogradov, Iu. B., 21.7–646
Wołoszyn, J., 21.8–414

Flood characteristics
Dolgushin, I. Iu., 21.11–691

Flood chronology
Helley, E. J. et al., 21.2–550

Flood control
Bolesta, W., 21.2–578
James, L. D., 21.5–651
Kikhawa, H. et al., 21.10–714
Northrop, W. J., 21.6–759
Ree, W. O., 21.6–781
Rogers, P., 21.9–608

Flood control projects
Gartner, G., 21.6–757

Flood control systems
Bogardi, I., 21.2–577
Galliher, C. F., 21.8–689

Flood damage
Chechik, F. Sh., 21.10–416
McPherson, H. J. et al., 21.8–466
Matthai, H. F., 21.8–474
Mills, W. B. et al., 21.8–475
United Nations Economic Comm. for Asia and the Far East, 21.2–97
Zietara, T., 21.9–324

Flood damage prevention
Day, H. J., 21.10–709

Flood damage to crops
Yu, P. T., 21.7–660

Flood discharge calculations
Cermak, M., 21.1–776
Gartsman, I. N., 21.9–29R
Raffa, U., 21.10–705
Williams, G. E., 21.1–646
Wu, I-Pai, 21.8–478

Flood discharge estimation
Egiazarov, I. V. et al., 21.9–594

Flood discharge forecasting
Tamazian, A. A., 21.11–731

Flood discharge measurement techniques
Rodier, J. A., 21.7–778

Flood discharge measurements
Uryvaev, V. A. et al., 21.7–812

Flood discharges
Mustata, L., 21.9–347

Flood duration
Zsuffa, I., 21.10–708

Flood estimation
Banerji, S. et al., 21.8–465
Glos, E. et al., 21.9–595
Heras, R., 21.9–597
Pardé, M., 21.10–419
U. S. Corps of Engineers, 21.9–609

Flood forecasting
Cechova, I., 21.6–632
Grinevich, G. A., 21.2–581
Komarov, V. D. et al., 21.2–536
Levin, A. G., 21.7–645
Sapozhnikov, V. I. et al., 21.2–546
Stefan, H., 21.5–766
Zimont, I. L., 21.8–480

Flood forecasting models
Menard, Y., 21.2–278

Flood forecasting services
Moore, D. F. et al., 21.8–115
U. S. Weather Bureau, 21.8–788

Flood forecasting techniques
Myint, K., 21.12–677
Sugawara, M., 21.9–605

Flood formation
Chebotarev, A. I. et al., 21.10–712
Hazan, R., 21.10–417
Kochubei, S. G. et al., 21.4–526
Koren', V. I. et al., 21.8–473
Kudyshkin, V. A. et al., 21.9–344
Lauterbach, D. et al., 21.10–716
McPherson, H. J. et al., 21.8–466
Malik, L. K., 21.9–345
Mashukov, P. M., 21.9–346
Mustata, L., 21.9–347
Zimont, I. L., 21.8–480

Flood frequencies
Kirby, W., 21.6–627

Flood frequency calculations
Melentijevich, M., 21.7–785
Rao, G. A. N., 21.8–476

Flood frequency distribution
Stefan, H., 21.5–766

Flood hydrographic–morphometric relationships
Mociornita, C., 21.7–802

Flood hydrographs
Ayers, H. D. et al., 21.9–651
Hazan, R. et al., 21.10–698
Holtan, H. N. et al., 21.10–699
Leskov, G. A., 21.10–700
Pasławski, Z. et al., 21.10–701
Platagea, G., 21.10–717
Rodda, J. C., 21.1–773
Shatberashvili, P. A., 21.9–587
Sokolovskiĭ, D. L., 21.7–781
Vishnevskiĭ, P. F., 21.12–673
Voskresenskiĭ, K. P., 21.7–782
Wu, I-Pai, 21.8–478
Zhelezniak, I. A., 21.4–587
Zimont, I. L., 21.8–480

Flood hydrology response time
Bell, F. C. et al., 21.5–650

Flood insurance
Kunreuther, H., 21.12–553

Flood Insurance Act of 1968, U. S. Congress
Kunreuther, H., 21.12–553

Flood insurance rates determination
Kunreuther, H., 21.12–553

Flood intensity–frequency regime
Bhatnâgar, A., 21.10–703
Miller, E. M., 21.7–786
U. S. Corps of Engineers, 21.9–609

Flood levels
Koren', V. I. et al., 21.8–473
Schneider, W. J., 21.10–719
Sugawara, M., 21.9–605

Flood plain cultivation
  Boĭchuk, V. A. et al., 21.2–608
Flood plain information, U.S.A.
  U. S. Corps of Engineers, 21.9–238R, –239R
Flood plain utilization
  U. S. Corps of Engineers, 21.9–609
Flood plains
  Chalov, R. S., 21.4–525
  Nuzhdin, B. V., 21.3–744
Flood potential of watersheds
  Burgess, L. C. N., 21.8–470
Flood–precipitation relationships
  Alexander, G. N., 21.9–589
  Bukovszky, G. et al., 21.9–307
  Guillot, P. et al., 21.9–596
  Peguy, Ch. P. et al., 21.6–603
Flood probability
  Kirby, W., 21.6–627
Flood probability calculation
  Guillot, P. et al., 21.9–596
  Jacquet, J. et al., 21.6–626
  Stefan, H., 21.5–766
Flood protection
  Zsuffa, I., 21.10–708
Flood rainfall
  Banerji, S. et al., 21.8–465
  Hazan, R., 21.10–417
  Levin, A. G., 21.7–645
  Matthai, H. F., 21.8–474
  Mustata, L., 21.9–347
  Sokolovskiĭ, D. L., 21.7–781
  Zimont, I. L., 21.8–480
Flood rainfall analysis
  Befani, A. N., 21.7–644
  Guillot, P. et al., 21.9–596
  Pardé, M., 21.10–419
  Vinogradov, Iu. B., 21.7–646
  Vishnevskiĭ, P. F., 21.5–652
Flood–rainfall data analysis
  Alexander, G. N. et al., 21.8–405, –406
  Zalesskiĭ, F. V., 21.8–479
Flood routing
  Burnash, R. J. C., 21.8–785
  Kikhawa, H. et al., 21.10–714
Flood-routing computers
  Nechaeva, N. S. et al., 21.9–599
Flood runoff
  Befani, A. N., 21.7–605
  Mills, W. B. et al., 21.8–475
  Parshin, V. N., 21.4–527
Flood runoff calculations
  Befani, A. N., 21.2–547
  Fedorei, V. G., 21.2–534
Flood runoff frequency
  Gann, E. E., 21.2–549
Flood statistics
  Huxham, S. H. et al., 21.7–780
  Kirby, W., 21.6–627
Flood studies
  Kiriak, V., 21.10–715
  Rodriguez, A., 21.10–718
Flood symposia
  International Symposium on Floods and their Computation, Leningrad, 1967, 21.8–472
  Sokolov, A. A., 21.11–433
  Sokolovskiĭ, D. L. et al., 21.8–477
Flood values research
  Grard, R., 21.11–431
Flood warning effectiveness
  Day, H. J., 21.10–709
  Moore, D. F. et al., 21.8–115
  U. S. Environmental Science Services Administration, 21.9–606
Flood warning services
  Day, H. J., 21.10–709
  Moore, D. F. et al., 21.8–115
  U. S. Weather Bureau, 21.8–788
Flood wave calculation
  Pukush, N. V., 21.5–765
Flood wave forecasting
  Nechaeva, N. S. et al., 21.9–599
Flood wave propagation
  Malik, L. K., 21.9–345
Flood wave spreading
  Grushevskiĭ, M. S., 21.10–713
Flood wave velocity
  Buchanan, T. J., 21.11–720
Flood waves
  Pasławski, Z. et al., 21.10–701
Floods
  U. S. Corps of Engineers, 21.4–585
  White, E. L. et al., 21.10–420
Floods, Dallas, Texas (April 1966)
  Mills, W. B. et al., 21.8–475
Floods, Italy (Nov. 1966)
  Bendini, C., 21.10–711
  Fea, G. et al., 21.8–471
Florida currents
  Smith, J. A., 21.2–756
Flow dynamics
  Fidman, B. A., 21.6–782
Flow in channels
  Tanaka, Y., 21.11–736
Flow in open channels
  Alam, A. M. Z. et al., 21.5–768
  Borovikova, L. N., 21.12–708
  Martin, C. S. et al., 21.10–562
  Zhelezniakov, G. V., 21.11–738
Flow meters
  Ishihara, Y. et al., 21.2–603
Flow through porous media
  Guelin, P., 21.4–551
Flowing water
  Denisov, Iu. M. et al., 21.4–592
Fluid dynamics
  Gelci, R. et al., 21.4–371
  Holt, M., 21.1–6
  Pfeffer, R. L., 21.2–83
  Scorer, R. S., 21.6–281, –282
Fluid dynamics models
  Goldman, J. L. et al., 21.6–267
Fluid flow
  Johnson, W. K., 21.10–565
  Schubert, G., 21.1–356
Fluid flow in porous media
  Behnke, J. J., 21.4–568
  Gershon, N. D. et al., 21.4–570

Whistler, F. D. et al., 21.10–697
Fluid flow measurements
Greated, C. A., 21.10–685
Fluid mechanics
Annual Review of Fluid Mechanics [Palo Alto, Calif.], 21.11–35R; 21.12–3
Fluid motion equations
Blanchet, J., 21.6–273
Fluid tides
LoBascio, A. et al., 21.1–351
Fluid velocity measurements
Yen, B. Ch., 21.12–701
Fluorescent detection of nuclear explosions
Barasch, G. E., 21.8–620
Fluorescent particle tracer technique
Nickola, P. W., 21.12–109
Fluorescent tracers
Buchanan, T. J., 21.11–720
Bunn, B., 21.11–721
Ozmidov, R. V., 21.9–709
Stoner, J. D., 21.10–751
Wilson, J. F., Jr., 21.10–680
Fluorides
Warner, T. B., 21.3–787
Focused beam wave
Ishimaru, A., 21.3–80
Foehn effects
Budziszewska, E., 21.7–509
Foehn weather
Skoda, G., 21.3–618
Fog and air traffic
Blanchard, J. W., 21.6–575
Fog climatology
Johnson, F. G., 21.8–361
Fog definitions
Eldridge, R. G., 21.3–648
Fog dispersal
Gaivoronskiĭ, I. I., 21.3–298
Low, R. D. H., 21.8–356
Osmun, W. G., 21.1–262
Fog dispersal techniques
Environmental Sciences & Technology [Wash., D. C.], 21.3–305
Hilsenrod, A., 21.12–183
Jiusto, J. E., 21.5–195
Kraght, P. E., 21.12–184
Mullaney, G. J. et al., 21.7–113
Plank, V. G. et al., 21.3–303
U. S. Air Force. Cambridge Res. Labs., Bedford, Mass., 21.1–263
Vial'tsev, V. V., 21.11–137
White, W. C. et al., 21.10–124
Zarea, St. et al., 21.10–125
Fog dissipation
Appleman, H. S., 21.3–297
Gaivoronskiĭ, I. I. et al., 21.6–153
Kocmond, W. C., 21.5–196, –197
Pilie, R. J., 21.5–198
Serpolay, R. et al., 21.6–154
Studer, T. A., 21.7–114
Fog dissipation by helicopters
Plank, V. G., 21.2–254
Fog dissipation by lasers
Mullaney, G. J. et al., 21.7–113
Fog dissipation techniques
Parker, W. J., 21.2–48
Rinehart, G. S., 21.3–304
Fog distribution
Cantu, V., 21.6–577
Fog drop size
Rinehart, G. S., 21.3–304
Fog droplet growth
Bollay, E., Associates, Inc., Santa Barbara, Calif., 21.11–375
Fog droplet samplings
Akul'shina, L. G. et al., 21.3–203
Fog droplet spectra
Ferrara, R. et al., 21.1–570
Fog effect
Berliand, M. E., 21.9–10R
Fog effects on atmospheric conductivity
Burke, T. P. et al., 21.1–574
Ferrara, R. et al., 21.1–575
Fog effects on radiation
Wendler, G., 21.5–382
Fog effects on radioactivity
Marquardt, W., 21.6–258
Fog evaporation
Bakhanova, R. A. et al., 21.6–538
Fog forecasting
Seredkina, E. A., 21.12–524
Yee, L., 21.11–116
Fog forecasting methods
Miyazono, S., 21.6–140
Fog formation
Bonis, K., 21.3–645
Frankenberger, E., 21.6–536
Hess, B. et al., 21.5–579
Leonov, L. F., 21.12–185
Lowry, W. P., 21.8–362
Ludwig, F. L., 21.11–376
Mészáros, E., 21.6–560
Seredkina, E. A., 21.12–524
Fog frequencies
Il'ko, J. et al., 21.9–291
Lamp, R., 21.8–363
Seredkina, E. A., 21.12–524
Fog–laser emissions characteristics
Kolosov, M. A., 21.12–525
Fog measurements
Grunow, J. et al., 21.4–284
Fog microphysics
Koo, C. C. et al., 21.1–10
Ludwig, F. L., 21.11–376
Fog microstructure
Moiseenko, Iu. I. et al., 21.3–204
Fog microstructure measurement instruments
Kolosov, M. A., 21.12–525
Fog model
Kokhanovich, M. M., 21.10–24R
Fog modification
Kumai, M., 21.2–47
Silverman, B. A., 21.10–74R
Fog prevention
Bakhanova, R. A. et al., 21.6–538
Deriagin, B. V., 21.12–496
Koenig, L. R., 21.7–112
Kumai, M., 21.3–650
Leonov, L. F., 21.12–185
Porteous, A., 21.11–377
Fog regime
Shpakova, L. N., 21.12–526
Fog seeding
Koenig, L. R., 21.7–112
Fog seeding experiments
Eadie, W. J., 21.5–194
Fabre, R., 21.6–152

Kocmond, W. C., 21.5–197
Kraght, P. E., 21.12–184
Osmun, W. G., 21.1–262
Fog studies
Pilie, R. J., 21.4–268
Food pollution
Warren, H. V. et al., 21.1–310
Foot and mouth disease
Smith, L. P. et al., 21.9–396
Wright, P. B., 21.6–661
Forbush cosmic ray decreases
Akasofu, S. I., 21.12–433
Ballif, J. R. et al., 21.10–650
Burnell, J., 21.4–465
Lockwood, J. A. et al., 21.7–414
Forbush effects
Velinov, P., 21.11–213
Forecast accuracy
Lorenz, E. N., 21.8–113
Marchenko, A. S., 21.8–114
Monin, A. S., 21.3–294
Ter-Mkrtchian, M. G., 21.12–173
Forecast aids
George, J. J., 21.8–79
Forecast dissemination
Orel, V., 21.6–128
Forecast errors
Karpeev, G. A., 21.12–137, –171
Sutton, D. W., 21.10–117
Forecast evaluation
Baumhefner, D. P., 21.11–125
Hansen, D., 21.1–254
Karpeev, G. A., 21.12–170, –171
Voinova, T. A. et al., 21.1–255
Forecast improvement
Halem, M. et al., 21.8–24
Lorenz, E. N., 21.4–27
Palmer, H. V. R., Jr., 21.9–80
Snellman, L. W., 21.3–223
Forecast of temperature by computer
Klein, W. H., 21.12–143
Forecast performance reports
Roberts, C. F. et al., 21.4–26
Forecast preparation
Falzgraf, B. G., 21.9–101R
Forecast study, U.S.A.F.
U. S. Air Weather Service, 21.9–228R
Forecast verification
Roberts, C. F. et al., 21.4–26
Tyner, R. V., 21.11–126
Forecasting air temperature anomalies
Mepistsveridze, E. I., 21.10–309
Forecasting cyclone development
Tyner, R. V., 21.12–124
Forecasting errors
Fuks-Rabinovich, M. S., 21.1–245
Forecasting 5-day charts
Shukla, J. et al., 21.6–143
Forecasting flood peak discharges on the Latoritsa River
Pavlenko, G. V., 21.12–155
Forecasting for sailing
Kurtz, E. S., 21.9–108
Forecasting for shipping
Newman, L. W., 21.10–96
Forecasting for space travel
U. S. Interdepartmental Committee for Atmospheric Science, 21.10–116
Forecasting heavy snowfalls
Iakovleva, L. P., 21.12–145
Forecasting manuals
Booz-Allen Applied Research, Inc., Los Angeles, Calif., 21.3–221
Moscow. Tsentral'nyĭ Institut Prognozov, 21.8–80
Forecasting mean monthly air temperature
Mepistsveridze, E. I., 21.10–109
Forecasting methods
Petrichenko, I. A., 21.12–141
Sovetova, V. D., 21.2–37
Taborsky, Z., 21.12–154
Forecasting models
Kreitzberg, C. W., 21.7–79
Shuman, F. G. et al., 21.3–222
Forecasting of rainfall
Kasamura, Y., 21.10–71R
Forecasting of snowfall
Momose, E., 21.10–72R
Forecasting planetary altitudinal frontal zone
Mdinaradze, D. A. et al., 21.10–105
Forecasting precipitation amounts
Orlova, E. M., 21.12–176
Forecasting reference, Altus A.F.B.
U. S. Air Weather Service. 15th Weather Squadron, 21.9–235R
Forecasting reference, Loring A.F.B.
U. S. Air Weather Service. 8th Weather Squadron, 21.9–234R
Forecasting reference, Westover A.F.B.
U. S. Air Weather Service. 8th Weather Squadron, 21.9–229R
Forecasting reservoir inflow
Pashova, L. T., 21.12–665
Forecasting services
Thompson, J. C., 21.1–259
Forecasting 700-mb contours
Shukla, J. et al., 21.6–143
Forecasting spring runoff
Zmieva, E. S., 21.12–681
Forecasting symposia
Nickerson, J. W., 21.7–80
Forecasting techniques
Bancarel, J. P., 21.5–149
Diouf, A., 21.12–372
Loisy, R., 21.12–126
Forecasting visual sequences
Goodman, E. A. et al., 21.4–392
Forecasting wind flood levels
Sapozhnikov, V. I., 21.12–156
Forest albedo
Gay, L. W., 21.3–501
Vygodskaia, N. N., 21.1–434

Forest climatology
  Ved', I. P., 21.5–427
  Wardle, P. A., 21.8–686
Forest damage
  Azlikhanov, M. Ch. et al., 21.9–332
  Severskiĭ, I. V. et al., 21.9–331
  Stein, G., 21.6–184
Forest ecology
  Iakshina, A. M., 21.1–426
  Ved', I. P., 21.9–401
Forest effects on hydrology
  Salverda, Z., 21.2–528
Forest effects on precipitation
  Baynton, H. W., 21.7–618
Forest effects on solar radiation
  Anderson, M. C., 21.12–420
Forest effects on temperature
  Obrębska-Starklowa, B., 21.6–664
Forest effects on wind speed
  Baynton, H. W., 21.7–618
  Sadeh, W. Z. et al., 21.10–318
Forest fire conditions
  Schroeder, M. J. et al., 21.1–57
Forest fire effects on air pollution
  Hobbs, P. V. et al., 21.7–552
Forest fire forecasting
  Käse, H., 21.4–344; 21.10–120
Forest fire prevention
  Käse, H., 21.10–120
Forest fire research program
  Canada. Forest Fire Research Institute, 21.8–685
Forest fires
  Käse, H., 21.4–344
Forest hydrology
  Holmes, J. W. et al., 21.10–353
Forest hydrometeorology
  Ivanov, K. E. et al., 21.2–555
Forest influences on flood levels
  Schneider, W. J., 21.10–719
Forest–maximum river discharge effects
  Bochkov, A. P., 21.11–481
Forest meteorology
  Pleiss, H., 21.10–473
Forest Microclimate Symposium
  Forest Microclimate Symposium, 3rd, Kananaskis Forest Experiment Station, 21.12–565
Forest microclimates
  Leonard, R. E. et al., 21.3–171
Forest microclimatology
  Wagner, 21.6–441
Forest micrometeorology
  Denmead, O. T., 21.5–669
  Fedorov, S. F., 21.7–483
  Leonard, R. E. et al., 21.3–171
  Tomlain, J., 21.7–676
Forest rainfall
  De Laine, R. J., 21.6–90
Forest soil temperatures
  Dimitrov, E., 21.2–205
Forest–solar radiation effects
  Brown, G. W., 21.10–754
  Miller, P. C., 21.7–343
Forest temperatures
  Bergen, J. D., 21.11–302
  Gay, L. W., 21.3–501
  Wagner, R., 21.6–441
Forest winds
  Shinn, J. H., 21.1–479
Forestry
  Goda, L., 21.2–567
  U. S. Forest Service, 21.5–685
Fourier analysis
  Gonczi, G. et al., 21.6–731
  Pallmann, A. J., 21.4–230
Four-level forecasting models
  Okland, H., 21.5–170
Fraunhofer lines
  Beckers, J. M., 21.12–645, –646
  Burger, M. et al., 21.6–730
Frazil ice
  Piotrovich, V. V., 21.7–819
Frazil ice formation
  Jarocki, W., 21.2–633
  Sidorova, L. V., 21.9–672
Free air turbulence
  Myrup, O. O., 21.4–200
  Roth, R., 21.5–504
  Vinnichenko, N. K., 21.12–475
Freeze-up of rivers
  Ginzburg, B. M., 21.10–17R
Freezing and ice clearing reservoirs
  Ginzburg, B. M., 21.12–733
Freezing effects on concrete strength
  Simpliceanu, V., 21.2–402
Freezing level determination
  Peterson, E. B., 21.4–174
Freezing nuclei
  Finnegan, W. G. et al., 21.5–578
  Vali, G., 21.12–522
Freezing nuclei concentration variations
  Muller, W., 21.5–580
Freezing nuclei counting techniques
  Stevenson, C. M., 21.1–206
  Vali, G. et al., 21.10–90
Freezing of cloud droplets
  Abbas, M. A. et al., 21.5–571
  Alkezweeny, A. J., 21.7–555
  Roulleau, M., 21.8–355
Freezing of rivers
  Shuliakovskiĭ, L. G., 21.9–80R
  Zuev, V. M., 21.2–641
Freezing of supercooled droplets
  Abbas, M. A. et al., 21.5–571
  Alkezweeny, A. J., 21.7–555
  Burrows, D. A. et al., 21.5–596
  Edwards, G. R. et al., 21.7–543
Freezing of water drops
  Vali, G., 21.12–522
Freezing soil
  Suzuki, S., 21.11–328

- **Freezing temperature of drops**
  - Pena, J. A., 21.12–506
  - Sramek, L., 21.12–200
- **Freezing temperature probabilities**
  - Moulton, L. K., 21.7–444
- **Freight car temperatures**
  - Piehl, H. D., 21.6–431
- **French nuclear tests**
  - Palmer, B. D., 21.5–363
- **Frequency curves of reservoir freezing**
  - Ginzburg, B. M., 21.12–733
- **Frequency data**
  - Italy. Servizio Meteorologico dell'Aeronautica Militare, 21.6–55
- **Fresh and salt water boundaries**
  - Lenk, P., 21.9–644
- **Fresh and salt water interface**
  - Schmorak, S. et al., 21.10–734
- **Fresh and salt water mixing**
  - Carstens, T., 21.12–759
- **Frictional effects**
  - Cadez, M., 21.1–358
  - Danard, M. B., 21.7–270
- **Frictional pressure effects**
  - Godev, N., 21.4–186
- **Frontal analysis**
  - Egorova, I. R., 21.2–104
  - Melosnova, T. I., 21.2–105
  - Samoĭlov, A. I. et al., 21.1–416
- **Frontal climatology**
  - Dement'eva, N. V., 21.2–101
- **Frontal cloud layer**
  - Ponomarenko, I. N., 21.4–121
- **Frontal cloud system analysis**
  - Tsuchiya, K. et al., 21.2–107
- **Frontal clouds**
  - Abashin, V. N., 21.12–402
  - Gavrilova, L. A., 21.4–120
  - Koshenko, A. M., 21.5–594, –595
  - Ponomarenko, I. N., 21.3–652
- **Frontal cyclogenesis**
  - Abashin, V. N., 21.12–402
  - Treidl, R. A., 21.3–418
- **Frontal development**
  - Bradbury, D. L., 21.12–401
- **Frontal dynamics**
  - Romov, A. I., 21.3–455
- **Frontal effects on aircraft icing**
  - Koshenko, A. M. et al., 21.9–289
- **Frontal fog**
  - Miyazono, S., 21.6–140
- **Frontal jet stream**
  - Treidl, R. A., 21.3–418
- **Frontal movement forecasting**
  - Carlstead, E. M., 21.8–110
- **Frontal precipitation**
  - Abashin, V. N., 21.12–402
  - Gavrilova, L. A., 21.4–120
- **Frontal storms**
  - Stănescu, I. et al., 21.7–311
- **Frontal structures**
  - Ponomarenko, I. N., 21.3–488
- **Frontal temperature distribution**
  - Obukhova, M. V., 21.12–443
- **Frontal thunderstorms**
  - Minafra, N. et al., 21.4–117
- **Frontal vertical motion measurement**
  - Romov, A. I., 21.4–124
- **Frontal wave formation**
  - Vitek, V., 21.10–259
- **Frontal zone measurements**
  - Ponomarenko, I. N., 21.4–122
- **Frost action**
  - Washburn, A. L., 21.10–14
- **Frost conditions**
  - *Citrograph* [Los Angeles], 21.10–313
- **Frost damage prevention**
  - Franklin, R. E., 21.6–447
  - Harris, D. R., 21.2–46
- **Frost damage to concrete**
  - Simpliceanu, V., 21.12–452
- **Frost damage to highways**
  - Franklin, R. E., 21.6–447
- **Frost damage to orange groves**
  - Albero Sanchis, V., 21.1–256
- **Frost damage to pavements**
  - Moulton, L. K. et al., 21.2–193; 21.7–444
- **Frost damage to plants**
  - Yoshida, S., 21.7–446, –447
- **Frost damage to trees**
  - Yoshida, S., 21.7–447
- **Frost effects on soil**
  - Konstantinova, G. S., 21.3–567
  - Soons, J. M., 21.7–445
- **Frost forecast evaluation**
  - Balzer, K., 21.10–118
- **Frost forecasting**
  - Albero Sanchis, V., 21.1–256
  - Frost, R., 21.5–189
  - Harris, D. R., 21.2–46
  - Hashemi, F., 21.10–312
- **Frost free season charts**
  - Gol'tsberg, I. A., 21.3–551; 21.6–448
- **Frost frequencies**
  - Domros, M., 21.12–450
- **Frost hummocks**
  - Svensson, H., 21.4–327
- **Frost intensities**
  - Sneyers, R., 21.5–483
- **Frost penetration–air temperature relationships**
  - Moulton, L. K. et al., 21.2–193
- **Frost pockets**
  - Lomas, J. et al., 21.5–482
- **Frost prevention**
  - Schneider, T., 21.5–193
- **Frost probability**
  - Gol'tsberg, I. A., 21.7–442
  - Perrier, R., 21.8–322
- **Frost protection of trees**
  - Schneider, T., 21.5–193
- **Frost resistance of plants**
  - Korovin, A. I. et al., 21.8–321
  - Sakai, A. et al., 21.8–323
- **Frost resistance of vineyards**
  - Pogosian, K. S., 21.11–316
- **Frost resistant crops**
  - Korovin, A. I. et al., 21.8–321
- **Frost–soil effects**
  - Bryant, J. P., 21.11–757
- **Frost spectroscopy**
  - Kieffer, H. H., 21.8–320

Frost statistics charts
  Gol'tsberg, I. A., 21.6–448
Froude number effects
  Hough, H. R., 21.4–407
  Kotik, J. et al., 21.2–649
  Sharma, S. D., 21.4–405
Frozen soil
  Scott, R. F., 21.7–459
Frozen soil properties
  Bobov, N. G., 21.10–315
  Outcalt, S. I., 21.7–458
Frozen soil strength
  Sayles, F. H., 21.12–461
Frozen supercooled droplets
  Johnson, D. A., 21.1–560
Fruit phenology
  Lawrynowicz, R., 21.2–19
  Hoffmann, K., 21.4–342

G

GARP, *see* **Global Atmospheric Research Program**
GHOST balloon data
  Lally, V. E., 21.3–132
Galactic cosmic ray modulation
  Fisk, L. A. et al., 21.9–477
  Hsieh, K. C., 21.10–591
  Webber, W. R., 21.11–566
Galactic cosmic ray propagation
  Belov, A. V. et al., 21.9–475
Galactic cosmic rays
  Filz, R. C. et al., 21.7–406
  McDonald, F. B., 21.10–298
  Meyer, P., 21.11–564
  Sari, J. W., 21.4–432
Galactic hydrogen cloud motion
  Mast, J. W. et al., 21.5–723
Galactic magnetic field
  Schatten, K. H. et al., 21.3–714
Galactic water vapors
  Meeks, M. L. et al., 21.4–470
Galactic X-rays
  Edwards, P. J. et al., 21.10–163
  Fujimoto, M., 21.11–563
Gales at sea
  Nania, A., 21.5–516; 21.6–500
Gamma distributions
  Schickedanz, P. T. et al., 21.6–18
  Shenton, L. R., 21.11–21
Gamma dosage
  Bottino, A. et al., 21.6–398
Gamma radiation
  Bottino, A. et al., 21.6–398
  Gibson, J. A. B. et al., 21.4–79
Gamma radiation sources
  Frye, G. M., Jr. et al., 21.10–590
Gamma ray astronomy
  Burbidge, G., 21.11–562
Gamma ray energy spectrum
  Stecker, F. W., 21.10–305
Gamma ray fluxes
  Begus, V. A. et al., 21.5–459
  Bleeker, J. A. M. et al., 21.5–461
  Fichtel, C. E. et al., 21.5–596
  Frye, G. M., Jr. et al., 21.10–590
  Sood, R. K., 21.9–483
Gamma ray measurements
  Fichtel, C. E. et al., 21.5–696
  Haymes, R. C., 21.4–151
  Kriz, G. J., 21.9–240
  Oda, M., 21.8–289
  Wollenberg, H. A. et al., 21.3–397
Gamma ray production
  Stecker, F. W., 21.10–597
Gamma ray soil moisture meters
  Greenvelt, P. H., 21.1–652
  Ryhiner, A. H. et al., 21.6–94
Gamma ray spectra
  Karpov, O. N. et al., 21.8–279
Gamma ray spectrometry
  Chapman, G. T., 21.2–162
Gamma ray spectrum
  Haymes, R. C., 21.4–151
  Stecker, F. W., 21.10–597
Gamma rays at high altitudes
  Karpov, O. N. et al., 21.8–279
Gas chromatography
  Mrose, H., 21.3–323
Gas dispersal patterns
  Santomauro, L., 21.1–497
Gas effluent dispersal
  Němec, L., 21.7–485
  Wippermann, F., 21.5–505
Gas exchange sea–atmosphere
  Sugiura, Y., 21.10–803
Gas thermodynamics
  Semonin, R. G., 21.1–365
Gaseous composition of the atmosphere
  Fischer, W. H. et al., 21.5–223
  Kozyrev, B. P. et al., 21.10–139
Gaseous pollutants
  Robinson, E. et al., 21.5–280; 21.8–146
Gaseous spectra
  McCaa, D. J. et al., 21.4–42
Gauss–Argand diagram
  Ertel, H., 21.5–502
Gebroulaz glacier
  Vivian, R., 21.1–760
Geiger counters
  Petrovic, P., 21.1–209
Geiger–Mueller counters
  Tin Aye Nyein, 21.11–107
Gemini-11 space flight
  O'Dell, F. W. et al., 21.10–300
Gemini photographs
  Stevenson, R. E., 21.6–69
Geminid meteor stream
  Forti, G., 21.11–607
General circulation
  Green, J. S. A., 21.3–411
  Inagamova, S. I. et al., 21.1–382
  Kasahara, A. et al., 21.7–281
  Ur'eva, B. R., 21.3–285
General circulation applied to forecasting
  Ped', D. A., 21.12–368
General circulation–Arctic heat budget relationships
  Huschke, R. E. et al., 21.5–400
General circulation–climate relationships
  Dzerdzeeskiĭ, B. L., 21.5–664
  Loginov, V. F., 21.5–390

General circulation conferences
World weather systems, 21.4–4
General circulation energetics
Hastenrath, S., 21.6–306
Mahlman, J. D., 21.5–401
Smith, P. J. et al., 21.5–406, –407
Soong, S. T. et al., 21.5–408
Wiin-Nielsen, A., 21.12–351
General circulation forecasting
Lorenz, E. N., 21.5–167
General circulation models
Arakawa, A. et al., 21.6–304
Dmitrieva-Arrago, L. R., 21.12–406
Dütsch, H. U., 21.12–286
Houghton, D. et al., 21.3–234
Kondrat'ev, K. Ia. et al., 21.6–307
Manabe, S., 21.6–309, –310; 21.10–240
Raethjen, P., 21.7–277
Smagorinsky, J., 21.3–283
General circulation rhythms
Drozdov, O. A. et al., 21.4–91; 21.7–262
Lambert, G., 21.12–327
Vorob'eva, E. V., 21.5–393
Zverev, N. I., 21.3–440
General circulation studies
Corby, G. A., 21.12–365
General circulation symposia
Dzerdzeevskiĭ, B. L., 21.2–89
General circulation variations
Putnins, P., 21.6–301
Geochemical methods
Kinsman, D. J. J. et al., 21.3–785
Geochemical systems
Clarke, W. B. et al., 21.2–724
Geodetic instrumentation
Williams, O. W., 21.3–176
Geodynamics yearbooks
Austria. Zentralanstalt für Meteorologie und Geodynamik, 21.1–37
Geoelectric measurements
Page, L. M., 21.2–273
Geoelectric prospecting
De Breuck, W. et al., 21.10–275
Norinelli, A., 21.9–646
Geomagnetic calculations
Chapman, S. et al., 21.5–735
Geomagnetic crochet
Pinter, S., 21.6–413
Geomagnetic data
Kodaikanal, India. Observatory, 21.11–195
Geomagnetic data, Antarctic
Expédition Antarctique Belgo-Néerlandaise, 1965, 21.10–107R
Geomagnetic data, Spain
Spain. Instituto Geográfico y Catastral, Madrid, 21.9–216R, –217R
Geomagnetic data analysis
James, R. W., 21.5–730
Geomagnetic disturbance causes
Alekseeva, L. M. et al., 21.5–336
Ol', A. I., 21.5–732
Geomagnetic disturbance–thermospheric relationships
Lew, S. K., 21.4–53
Geomagnetic disturbances
Fukushima, N., 21.7–718; 21.11–507
Geomagnetic effects on cosmic rays
Barcus, J. R., 21.7–394
Smart, D. F., 21.7–421
Geomagnetic effects on ionosphere
Van'ian, L. L., 21.12–311
Geomagnetic effects on meteor trails
Kaiser, T. R., 21.11–601
Geomagnetic effects on radio wave propagation
Houminer, Z., 21.12–72
Geomagnetic effects on satellites
Grigorevskiĭ, V. M. et al., 21.3–152
Geomagnetic field analysis
Yukutake, T. et al., 21.1–680
Geomagnetic field drift
Malin, S. R. C., 21.5–729
Richmond, A. D., 21.1–681
Geomagnetic field–interplanetary magnetic field interactions
Mansurov, S. M., 21.8–715
Geomagnetic field measurements
Aczel, E. et al., 21.5–726
Campbell, W. H., 21.5–727
Geomagnetic fluctuations
Hruska, A. et al., 21.5–731
Olson, J. V. et al., 21.5–737
Geomagnetic instruments
Aczel, E. et al., 21.5–726
Strestik, J., 21.5–728
Geomagnetic micropulsation
Campbell, W. H., 21.5–739
Yuan, F. F. F. et al., 21.8–303
Geomagnetic micropulsation measurement techniques
Strestik, J., 21.5–728
Geomagnetic micropulsation propagation
Orr, D., 21.5–740
Geomagnetic micropulsations–auroral relationships
Troitskaia, V. A. et al., 21.5–741
Geomagnetic micropulsations–ionospheric relationships
Elkins, T. J., 21.11–184
Kvavadze, D. K. et al., 21.8–187
Geomagnetic periodicities
Cehak, K. et al., 21.6–716
Drozdov, O. A. et al., 21.4–91
Vorob'eva, E. V., 21.5–393
Geomagnetic pulsation analysis
Al'perovich, L. S. et al., 21.5–738
Geomagnetic storm effects
Vladimirskiĭ, B. M. et al., 21.9–235

Geomagnetic storm–ionosphere effects
Shashun'kina, V. M., 21.9–181
Geomagnetic storm studies
Akasofu, S. I., 21.12–433
Geomagnetic storms
Dachs, J., 21.3–518
Hays, P. B., 21.3–561
Geomagnetic storms–ionospheric relationships
Arendt, P. R., 21.8–158
Mendillo, M. et al., 21.8–191
Geomagnetic surveys
De Vuyst, A. et al., 21.5–742
Geomagnetic variations
Dorman, L. I., 21.12–428
Geomagnetism data, Japan
Kakioka, Japan. Magnetic Observatory, 21.10–103R, –104R
Geomorphological climatic influences
Shchukin, I. S., 21.9–367
Geomorphological processes
Büdel, J., 21.10–451
Geomorphology
Bloom, A. L., 21.10–676
Davies, J. L., 21.12–571
Geomorphology and climates
Shchukin, I. S., 21.9–367
Tricart, J., 21.11–39R
Geomorphology of Spitsbergen
Czeppe, Z., 21.4–338
Geophysical data
Belgium. Institut Royal Météorologique, 21.9–197R
Dourbes, Belgium. Centre de Physique du Globe, 21.9–198R
Japan. Meteorological Agency, Tokyo, 21.11–56
Observatories' Year Book, England, 1966, 21.9–221R, –222R
Geophysical groundwater logging
Johnson, A. I., 21.10–726
Geophysical observations
Page, T., 21.5–38
Geophysical observatory, Voeikov
Leningrad. Glavnaia Geofizicheskaia Observatoriia, 21.12–25R
Geophysics
Advances in Geophysics [N.Y.], 21.3–2
Israel, H., 21.1–9
Geophysics abstracts
Referativnyi Zhurnal: Geofizika, 21.9–68R
Geophysics bibliography
Associazione Geofisica Italiana, Rome, 21.9–126R
Geophysics bulletin
Geophysics and Space Data Bulletin [Hanscom Field, Mass.], 21.11–55R to 57R
Geophysics periodicals
Canadian Geophysical Bulletin [Ottawa], 21.3–10
Geophysics research
U. S. Joint Publications Research Service, 21.9–90R
Geopyhsics research in Soviet bloc
U. S. Joint Publications Research Service, 21.9–125R
Geopotential, 500-mb
Todaro, C., 21.5–501
Geopotential calculation techniques
Olintseva-Nebrat, G. G., 21.9–253
Geopotential field
Martem'ianov, V. I., 21.2–352
Geopotential field, 500-mb
Kato, H., 21.11–246
Kryndin, A. N., 21.9–407
Zakharova, N. M., 21.9–410
Geopotential field analysis
Adamy, L., 21.6–474
Dixon, R., 21.12–138
Dobryshmam, E. M. et al., 21.6–136
Fujiwhara, S., 21.1–232
Kheifets, Ia. M., 21.6–133
Martem'ianov, V. I., 21.2–218
Olevskaia, S. M., 21.6–475
Geopotential field calculations
Martin, F. L., 21.3–582
Geopotential field forecasting
Vulis, I. L. et al., 21.3–251
Geopotential field variations
Besleaga, N., 21.3–228
Geopotential fields
Besleaga, N. et al., 21.3–320
Sovetova, V. D., 21.2–37
Geopotential height calculations
Smith, W. L., 21.7–463
Geopotential height errors
Smith, W. L., 21.7–463
Geopotential temperature
Bassanini, P. et al., 21.3–583
Geopotential variability
Todaro, C., 21.2–353
Geostationary Operational Environmental Satellite (GOES)
TELCOM, Inc., 21.8–50
Geostrophic approximation
Gill, A. E., 21.1–349
Geostrophic departure
Gill, A. E., 21.1–349
Geostrophic flow
Gilman, P. A., 21.5–397
Geostrophic ocean current computations
Kozlov, V. F., 21.4–736
Geostrophic ocean currents
Heath, R. A., 21.2–726
Geostrophic vorticity
Cechova, E., 21.1–354
Geostrophic vorticity advection
Cechova, E., 21.1–354
Geostrophic winds
Aagaard, K., 21.3–600
Geothermal anomalies
Suzuki, S., 21.11–328
Geothermal gradient
Adolphson, D. G., 21.2–557
Rosenthal, E. et al., 21.1–766
Geothermal heat flow
Horai, K.-I., 21.4–326
Lachenbruch, A. H. et al., 21.9–736

Geothermal heat flow measurement techniques
White, D. E., 21.5–724
Glacial ablation
Klemsdal, T., 21.11–744
Glacial advances
Bull, C., 21.10–784
Field, W. O., 21.11–751
Harrison, A. E., 21.11–752
Hattersley-Smith, G., 21.11–753
Hewitt, K., 21.11–746
Hoinkes, H. C., 21.10–785
Horvath, E. V. et al., 21.10–779
Liestol, O., 21.10–780
Lliboutry, L. A., 21.11–748
Meier, M. F., 21.11–747
Müller, F., 21.10–781
Robin, G. De Q., 21.11–749, –750
Rothlisberger, H., 21.10–782
Schytt, V., 21.11–743
Thorarinsson, S., 21.10–783
Glacial deposits
Lavrushin, Iu. A., 21.2–622
Glacial drainage channels
Stenborg, T., 21.5–778; 21.8–807
Glacial eustasy
Emiliani, C., 21.9–679
Suetova, I. A., 21.4–610
Glacial geomorphology
Harris, S. A., 21.6–824
Glacial mud flows
Gerasimov, V. A., 21.9–667
Glacial period theories
Sergin, V. Ia. et al., 21.8–524
Glacial periods
Kendall, R. L., 21.6–648
Shcherbakova, E. M., 21.7–632
Vita-Finzi, C., 21.9–378
Williams, R. B. G., 21.5–490
Glacial runoff calculations
Borovikova, L. N., 21.9–14R
Fashchevskiĭ, B. V., 21.11–428
Glacial structure
Dort, W., Jr. et al., 21.6–817
Glaciation
Kotliakov, V. M., 21.4–608
Glaciation characteristics
Wendler, G., 21.3–752
Glaciation in Spitzbergen, European Arctic sector
Lavrushin, Iu. A., 21.2–622
Glacier discharge
Black, R. F., 21.1–764
Glacier fed rivers
Ertel, H., 21.11–427
Glacier firn
Dort, W., Jr. et al., 21.6–817
Glacier flow
Bull, C., 21.10–784
Clarke, G. K. C., 21.7–823
Field, W. O., 21.11–751
Harrison, A. E., 21.11–752
Hattersley-Smith, G., 21.11–753
Hewitt, K., 21.11–746
Hoinkes, H. C., 21.10–785
Horvath, E. V. et al., 21.10–779
Liestol, O., 21.10–780
Loken, O. H., 21.10–774
Makarevich, K. G., 21.7–824
Meier, M. F., 21.11–747
Müller, F., 21.10–781
Nye, J. F., 21.8–519
Robin, G. de Q., 21.11–749, –750
Rothlisberger, H., 21.10–782
Thorarinsson, S., 21.10–783
Glacier flow theories
Lliboutry, L. A., 21.11–748
Makarevich, K. G., 21.7–824
Glacier guide for IHD
United Nations Educational, Scientific, and Cultural Organization, 21.12–719
Glacier measurements
Slupetzky, H. et al., 21.1–759
Glacier–meteorological expeditions
Cameron, R. L. et al., 21.1–140
Polarforschung [Kiel], 21.1–141
Glacier–meteorological observations
Nakajima, C., 21.11–60
Vivian, R., 21.1–760, –761
Glacier–meteorological surveys
Klemsdal, T., 21.11–744
Glacier movement
Post, A., 21.3–754
Schneider, H. J., 21.4–609
Glacier movement measurements
Ambach, W. et al., 21.8–422
Glacier observations
Kasser, P., 21.1–757
Glacier photographs
Veatch, F. M., 21.12–726
Glacier properties
Glen, J. W., 21.6–804
Glacier regimes
Konovalov, V. G., 21.10–777
Lavrushin, Iu. A., 21.2–622
Liestöl, O., 21.10–778
Schytt, V., 21.11–743
Glacier research
Müller, F., 21.3–749
Glacier runoff
Cherkasov, P. A. et al., 21.2–626
Glacier snow cover
Wagner, W. P., 21.7–633, –634
Glacier surveys
Slupetzky, H. et al., 21.1–759
Glacier thickness
Clarke, G. K. C., 21.7–823
Glacier variations
Baidal, M. Kh., 21.12–561
Kasser, P., 21.2–625
Kupetskiĭ, V. N., 21.12–727
Schneider, H. J., 21.4–609
Temple, P. H., 21.1–763
Vanni, M., 21.3–755
Veatch, F. M., 21.12–726
Vorndran, G., 21.8–806
Glaciers data, France
Vivian, R., 21.9–203R
Glacioclimatological observation
Markin, V. A., 21.2–624

Glaciological data
Vivian, R., 21.1–760, –761
Glaciological data analysis
Ommanney, C. S. L., 21.1–758
Glaciological electronic computer applications
Ommanney, C. S. L. et al., 21.1–758
Glaciological investigations
George, F., 21.5–776
Norway. Vassdrags-og Elektrisitetsvesen, 21.8–805
Schneider, H. J., 21.4–609
Glaciological research, Norway
Norway. Vassdrags-og Elektrisitetsvesen, 21.9–210R
Glaciology and hydrology in Antarctica
United Nations Educational, Scientific and Cultural Organization, 21.12–718
Glaciology monographs
Bogorodskiĭ, V. V., 21.3–748
Glaze
Lityńska, Z. et al., 21.7–557
Page, J. K., 21.8–360
Pedgley, D. E., 21.8–380
Glaze distribution with height
Glukhov, V. G., 21.7–556
Glaze forecasting
Lityńska, Z. et al., 21.7–557
Glaze frequencies
Flocchini, G., 21.2–175
Kriz, V. et al., 21.8–359
Glaze intensities
Belous, I. M., 21.5–586
Global atmospheric pollution
Singer, S. F., 21.5–20
Global Atmospheric Research Program (GARP)
Bolin, B., 21.9–3
Facilities for Atmospheric Research [Boulder, Colo.], 21.5–100
Firor, J. W., 21.10–4
Garcia, R. V., 21.1–380
Global Atmospheric Research Program, 21.10–17
Halem, M. et al., 21.8–24
Karol, I. L., 21.11–245
Masterson, J. E., 21.12–79
NCAR Quarterly [Boulder, Colo.], 21.9–198
Newell, H. E., 21.9–8
Pisharoty, P. R., 21.11–98R
Ruttenberg, S., 21.3–24; 21.7–6
Global circulation
Blinova, E. N., 21.3–428
Bugaev, V. A. et al., 21.3–149
Morel, P. et al., 21.6–312
Global circulation model
Manabe, S., 21.11–251
Global circulation symposia
Newall, V., 21.6–298
Global ecology
Peterson, E. K., 21.5–16
Global fallout
Kleinman, M. T. et al., 21.3–108
Global forecast model
Baumhefner, D. P., 21.11–125
Global forecasting
Dey, C. H., 21.3–216
Global glaciation
Brochu, M., 21.2–623
Global horizontal sounding
Lally, V. E., 21.3–132
Global Horizontal Sounding Techniques (GHOST)
Lally, V. E. et al., 21.6–60
Solot, S. B., 21.4–93
Wooldridge, G. et al., 21.7–266
Global meteorology
Giorgi, M., 21.6–292
Global monitoring programs
Singer, S. F., 21.5–20
Global monsoon equations
Sankar Rao, M. et al., 21.5–404
Global Ocean Floor Analysis and Research (GOFAR)
Lowrie, A. et al., 21.2–699
Global radiation analysis
Dogniaux, R., 21.12–408
Global radiation calculation
Dos Santos, J. M., 21.12–409
Lebedev, A. N., 21.6–356
Global radiation charts
Canada. Meteorological Branch, 21.1–443
Global radiation distribution
Einarsson, M. A., 21.5–438
Global radiation estimation
Linacre, E. T., 21.5–440
Global radiation measurements
Einarsson, M. A., 21.5–438
Kvraishi, M. M., 21.5–439
Quaraishee, M. M., 21.3–184
Global radiation on slopes
Samukashvili, R. D., 21.9–216
Global radiation–temperature relationships
Linacre, E. T., 21.5–440
Global radiation variations
Pyldmaa, V. K., 21.1–439
Reiter, R., 21.7–323
Rieker, T., 21.5–455
Global thunderstorm activity
Bent, R. B., 21.10–255
Kolokolov, V. P., 21.8–233
Global water balance
Barry, R. G., 21.1–547
Shnitnikov, A. V., 21.2–529
Global weather prediction
Lusignan, B. (ed.), 21.12–20
Government in science
U. S. Congress. House, 21.8–151
Grass ecology
Aldon, E. F., 21.2–401
Herbel, C. H. et al., 21.3–707
Old, S. M., 21.7–678
Silsbury, J. H., 21.3–708
Grass minimum temperature forecasting
Sills, A. G., 21.9–89
Steele, L. P. et al., 21.9–90
Grass temperature
Silsbury, J. H., 21.3–708

Grassland bioclimatology
Costello, D. F., 21.8–537
Grassland hydrology
Holmes, J. W. et al., 21.10–354
Grassland microclimatology
Old, S. M., 21.7–678
Grasslands
Whyte, R. O., 21.6–499
Gravity field calculation
Moritz, H., 21.7–750
Gravity wave propagation
Bretherton, F. P., 21.1–388
Claerbout, J. F., 21.7–510
Reddy, C. A., 21.7–241
Yanowitch, M., 21.7–243
Gravity wave theories
Chimonas, G., 21.6–669
Madden, T. R. et al., 21.5–522
Gravity waves
Clodman, S., 21.3–410
Gravity waves in high atmosphere
Lovill, J. E., 21.10–223
Revah, I., 21.7–507
Gravity waves in ocean
Yamada, H. et al., 21.1–747
Gravity winds
Khalevitskiĭ, Z. Z., 21.10–341
Great Britain. Hydrographic Dept.
Great Britain. Hydrographic Dept., 21.2–647
Great Britain. Meteorological Office, Marine Division
Great Britain. Meteorological Office, Marine Div., 21.12–11
Great Lakes effects on weather
Lansing, L., 21.1–619
Great Lakes Institute, University of Toronto, Canada
Toronto. Univ. Great Lakes Inst., 21.2–614
Great Lakes marine meteorological observations
Hight, W. D., 21.1–128
Great Lakes research
Havlick, S. W. et al., 21.5–744
Toronto. Univ. Great Lakes Inst., 21.2–614
Green auroral line
McConkey, J. W., 21.11–533
Green flash
Koblents, Ia. P., 21.11–490
Greenhouse climates
Desjardins, R. L. et al., 21.4–336
Greenhouse heating
Hogg, W. E., 21.8–680
Greenhouse model of Venus atmosphere
Ingersoll, A. P., 21.5–707
Pollack, J. B., 21.9–507
Greenland
Stober, M., 21.11–745
Greenland expeditions
Polarforschung [Kiel], 21.1–141
Greenland Ice Cap
Ambach, W., 21.10–776
Polarforschung [Kiel], 21.1–141
Kumai, M., 21.2–47
Seckel, H. et al., 21.10–786
Greenland ice sheet
Benson, C. S., 21.8–438
Stober, M., 21.11–745
Ground fog clearing
Plank, V. G., 21.2–254
Ground frost forecasting
Steele, L. P. et al., 21.9–90
Ground inversion
Andreev, V. et al., 21.5–527
Ground level carbon dioxide
Lemon, E. R. et al., 21.5–225
Ground level carbon monoxide
Seiler, W. et al., 21.6–168
Wang, V. et al., 21.6–188
Ground level ozone variations
Davis, D. R., 21.5–221
Ground pressure field forecasting
Il'in, B. M., 21.7–100
Groundwater balance
Pluhowski, E. J. et al., 21.1–781
Groundwater charts
Martini, H. J., 21.9–628
Groundwater chemistry
Eriksson, E. et al., 21.4–554
Groundwater composition
Barnes, I. et al., 21.4–552
Blanc, P. et al., 21.6–768
De Breuck, W. et al., 21.10–725
Dicker, T., 21.4–553
Eriksson, E., 21.4–554
Leflat, O. N., 21.6–769
Moissiu, C., 21.4–555
Protopopescu-Pache, E. I. et al., 21.1–784
Rutherford, A. A., 21.9–641
Groundwater depletion
Norinelli, A., 21.9–646
Groundwater discharge into sea
Cassinis, R., 21.8–793
Groundwater distribution
Baskachenko, I. N., 21.1–794
Groundwater erosion
Williams, P. W., 21.4–549
Groundwater filter forecasting
Alekseev, V. S., 21.4–550
Groundwater flow
Alekseev, V. S., 21.4–550
Davidson, J. M. et al., 21.9–355
De Geer, J., 21.4–540
Drake, R. L., 21.7–651
Gustafsson, Y., 21.4–571
Herbert, R., 21.10–736
Iotov, I. G. et al., 21.6–772
Javandel, I. et al., 21.4–559
Mauersberger, P., 21.10–737
Mower, R. W., 21.2–563; 21.4–565
Neuman, S. P. et al., 21.4–560, –561
Pinder, G. F. et al., 21.4–563
Spasov, V., 21.1–790
Thirriot, G. et al., 21.1–791
Trofin, E., 21.5–758
Venetis, C., 21.2–559
Waltz, J. P., 21.1–783
Warrick, A. W. et al., 21.4–573
Wurzel, P. et al., 21.4–574
Groundwater flow calcu-

lations
  Bybordi, M., 21.4–569
  Verruijt, A., 21.1–792
Groundwater flow direction determination
  Saleem, M., 21.10–738
Groundwater flow influences on salt balance
  Ernst, L. F., 21.10–426
Groundwater flow laws
  Laliberte, G. E., 21.2–562
Groundwater flow studies
  Verruijt, A., 21.10–742; 21.12–688
Groundwater formation
  Gustafsson, Y., 21.4–571
Groundwater hydrology
  Alekseev, V. S., 21.4–550
  Nilsson, L. Y., 21.5–755
  Ostrovskiĭ, V. N. et al., 21.4–567
  Williams, R. E. et al., 21.4–566
Groundwater legalities
  Hawerman, B., 21.4–542
Groundwater level calculation
  Vol'ftsun, I. B., 21.6–771
Groundwater level measurements
  Kelly, T. E., 21.10–690
  Loeltz, O. J., 21.10–691
Groundwater level variations
  Nilsson, L. Y., 21.5–755
Groundwater management
  Agerstrand, T., 21.4–532
  Beyer, M. G., 21.4–534
  Bredehoeft, J. D., 21.12–682
  Nace, R. L., 21.1–780
Groundwater mineralization
  Bagirova, R. I., 21.1–647
Groundwater movements
  Davis, G. H. et al., 21.9–645
  Mather, J. D. et al., 21.6–773
  Molitvin, P. V., 21.11–714
  Nwa, E. U. et al., 21.7–797
  Schoff, S. L., 21.2–565
  Verma, A. P., 21.5–756
Groundwater networks
  Pietryga, Z., 21.2–518
Groundwater pollution
  Bartz, J., 21.5–761
  Tenu, A., 21.7–798
Groundwater problems
  Akai, K., 21.11–713
Groundwater properties
  De Geer, J., 21.4–540
Groundwater purification
  Morse, R. N., 21.9–640
Groundwater recharge
  Akai, K., 21.11–713
  El Boushi, I. M. et al., 21.10–730
  Gregory, J. L. et al., 21.1–789
  Hammad, H. Y., 21.7–794
  Mower, R. W., 21.4–565
  Ostrovskiĭ, V. N. et al., 21.4–567
  Verma, A. P., 21.5–756
  Winqvist, G., 21.5–757
Groundwater regime
  Issar, A., 21.1–779
  Kapotova, N. I., 21.10–732
  Romanov, V. V., 21.6–770
  Tenu, A. et al., 21.1–782
  Toth, J., 21.12–686
Groundwater regime forecasting
  Heinrichsdorf, F., 21.11–711
Groundwater research
  Brown, I. C., 21.9–635
  Cotecchia, V., 21.9–636
  Navarro, A., 21.9–638
  Raffa, U., 21.9–639
Groundwater resources
  Arizona. Land Dept., 21.4–533
  Blanc, P. et al., 21.6–768
  Clyma, W. et al., 21.9–574
  Chuck, R. T., 21.9–622
  Cruickshank, V. et al., 21.4–506
  Dessureault, R., 21.9–623
  Enslin, J. F. et al., 21.9–624
  Frankel, M. L., 21.2–552
  Grant-Taylor, T. L., 21.9–625, –626
  Gulinck, M., 21.9–627
  Hammad, H. Y., 21.7–794
  Hawerman, B., 21.4–542
  International Hydrological Decade, Panel of Experts, 21.4–543
  Kahana, Y., 21.8–790
  Kapotova, N. I., 21.10–732
  Lamonds, A. G. et al., 21.4–544
  Llamas, M. R., 21.6–767
  McGreevy, L. J. et al., 21.2–556
  Moissiu, C., 21.4–555
  Mortier, F. et al., 21.2-279
  Nace, R. L., 21.1–780
  Newcomb, R. C., 21.4–546
  Nilsson, K., 21.4–547
  Pernas, R. E., 21.9–629
  Raffa, U., 21.9–639
  Schoff, S. L. et al., 21.10–723
  Simpson, E. S., 21.7–792
  Smith, C. G., Jr., 21.10–727
  Sosic, M. V. J., 21.9–633
  Stulik, R. S. et al., 21.4–531
  United Nations. Development Program, 21.1–795
  Widmer, K., 21.9–634
Groundwater salinity
  Teterin, V. P., 21.11–444
Groundwater storage
  Hammad, H. Y., 21.7–794
Groundwater–streamflow relationships
  Chebotarev, A. I. et al., 21.10–712
  Golf, W. et al., 21.2–580
  Hornberger, G. M., 21.12–684
Groundwater studies
  Clyma, W. et al., 21.9–574
  Ohashi, G., 21.11–712
  Rutulis, M., 21.9–632
  Visser, W. A., 21.7–793
Groundwater supply
  Agerstrand, T., 21.4–532
  Arizona. Land Dept., 21.4–533
  Barnes, I. et al., 21.4–552
  Beyer, M. G., 21.4–534
  Grant-Taylor, T. L., 21.9–625, –626
  Norris, S. E. et al., 21.4–562
  Stulik, R. S. et al., 21.4–531
  Waltz, J. P., 21.1–783
  Winqvist, G., 21.5–757

- **Groundwater symposia**
  - Eriksson, E. et al., 21.4–541
- **Groundwater table variations**
  - Kordas, B., 21.4–564
  - Ohashi, G., 21.11–712
- **Groundwater temperatures**
  - Bodvarsson, G., 21.2–558
  - Gutry-Korycka, M., 21.10–724
- **Groundwater tracers**
  - Davis, G. H. et al., 21.9–645
  - Horowitz, A., 21.12–685
  - Kaufman, M. I. et al., 21.10–728
  - Knutsson, G., 21.4–572
  - Mather, J. D. et al., 21.6–773
  - Schoff, S. L., 21.2–565
- **Groundwater velocity**
  - Sarvary, I., 21.1–788
- **Groundwater withdrawal**
  - Lofgren, B. E. et al., 21.10–434
- **Groundwater yields**
  - Larsson, I., 21.4–545
  - Dos Santos Junior, A. G. et al., 21.4–557
- **Ground wave propagation**
  - Johler, J. R., 21.3–694
- **Growing season data**
  - Peck, N. H. et al., 21.1–139
- **Guide for measuring snow cover**
  - United Nations Educational, Scientific and Cultural Organization, 21.12–545
- **Gulf hydrology**
  - Khimitsa, V. A., 21.4–304
- **Gulf Stream characteristics**
  - Knauss, J. A., 21.12–8R
- **Gulf Stream dynamics**
  - Niiler, P. P., 21.6–845
  - Orlanski, I., 21.4–737
  - Parsons, A. T., 21.8–849
- **Gulf Stream models**
  - Parsons, A. T., 21.8–849
- **Gulf Stream separation**
  - Parsons, A. T., 21.8–849
- **Gulf Stream surveys**
  - Wilkerson, J. C., 21.11–773
- **Gulf Stream temperatures**
  - Curtis, W. R., 21.6–846
- **Gun-launched meteorological sounding systems**
  - Williamson, L. E., 21.12–64
- **Gust calculations**
  - Diduch, O. J. et al., 21.4–191
- **Gust factors**
  - Huss, P. O., 21.6–516
- **Gust forecasting**
  - Waters, A. W., 21.11–114
- **Gust frequencies**
  - Morley, T. J., 21.4–217
- **Gust measurements**
  - Lorenc, H., 21.4–194
- **Gust variations**
  - Lorenc, H., 21.4–194
- **Gust velocities**
  - Crabbe, M., 21.6–495
- **Gustiness**
  - Cohak, K., 21.7–466
  - McVehil, G. E. et al., 21.3–589
- **Gustiness profiles**
  - Brook, R. R. et al., 21.6–477
- **Gustiness–wind velocity relationship**
  - Dolgushin, I. P., 21.2–222

H

- **H-variation and solar cycle**
  - Yacob, A., 21.12–644
- **HEOS-A-1, satellite**
  - *Die Umschau* [Frankfurt a.M.], 21.5–94
- **Hadley circulation**
  - Charney, J. G., 21.4–90
- **Hail**
  - Sal'man, E. M. et al., 21.3–93
- **Hail control**
  - Battan, L. J., 21.1–266
  - Voronov, G. S., 21.10–77R
- **Hail damage**
  - Tomassini, G. et al., 21.2–359
- **Hail damage to aircraft**
  - Thomson, Robert G. et al., 21.3–670
- **Hail damage to crops**
  - Barron, N. A. et al., 21.10–405
  - Bordovskaia, L. I., 21.11–415
  - Changnon, S. A., Jr., 21.5–638; 21.8–67
- **Hail distribution**
  - Babichenko, V. N., 21.7–639
- **Hail formation**
  - Reshetov, G. D., 21.7–626
  - Rosinski, J. et al., 21.1–567
  - Sulakvelidze, G. K., 21.9–88R
  - Wirth, E., 21.5–213
  - Voronov, G. S. et al., 21.4–302
- **Hail frequencies**
  - Abdumalikov, T. I. et al., 21.9–335
  - Tomassini, G. et al., 21.2–359
- **Hail gage design**
  - Changnon, S. A., Jr., 21.8–67
- **Hail growth**
  - Sarrica, O., 21.1–571
- **Hail modification**
  - Gaĭvoronskiĭ, I. I. et al., 21.9–334
  - Sulakvelidze, G. K., 21.7–125
- **Hail modification–agriculture effects**
  - Sulakvelidze, G. K., 21.7–125
- **Hail modification effectiveness**
  - Changnon, S. A., Jr., 21.4–299
  - Schickedanz, P. T. et al., 21.5–639
  - Weickmann, H. K. et al., 21.3–671
- **Hail observation techniques**
  - Changnon, S. A., Jr., 21.4–299; 21.5–202
  - Koren, O., 21.5–139
  - Sulakvelidze, G. K., 21.1–637
- **Hail occurrences**
  - Battan, L. J. et al., 21.4–298
  - Dement'eva, N. V., 21.2–101

Hail physics
Bailey, I. H. et al., 21.1–638
Schuepp, P. H. et al., 21.3–672
Hail prevention
Changnon, S. A., Jr., 21.5–202
Deutsche Versuchsanstalt für Luft-und Raumfahrt, 21.6–155
Gaĭvoronskiĭ, I. I. et al., 21.3–298; 21.7–119
Giharev, A. S., 21.12–191
Goyer, G. G., 21.11–138
Shaginian, S. V., 21.10–73R
Sulakvelidze, G. K., 21.11–151
Wirth, E., 21.5–213
Hail prevention effectiveness
Simidchiev, D., 21.11–150
Hail structure
Sarrica, O., 21.1–571
Hail suppression
Dennis, A. S. et al., 21.8–124
Dessens, J., 21.7–117
Goyer, G. G., 21.8–125
Kartsivadze, A. I., 21.7–120
Sansom, H. W., 21.5–209
Hail suppression experiments
Sansom, H. W., 21.10–130
Hail surveys
Changnon, S. A., Jr., 21.5–638
Hail swaths
Changnon, S. A., Jr., 21.6-622
Weickmann, H. K. et al., 21.3–671
Hail velocities
Wexler, R., 21.10–407
Hailstone aerodynamics
Bailey, I. H. et al., 21.1–640
Hailstone composition
Bailey, I. H., 21.1–639
Steffe, D. H., 21.6–621
Hailstone embryos
Knight, C. A., 21.11–418
Hailstone falling behavior
Knight, C. A., 21.11–417
Hailstone formation
Ponomarenko, S. I., 21.12–547
Hailstone growth
Bailey, I. H. et al., 21.1–640
Gokhale, N. R. et al., 21.10–406
Landry, C. R., 21.5–640
Macklin, W. C. et al., 21.1–641
Morgan, G. et al., 21.5–641
Prodi, F., 21.12–548
Hailstone heat transfer
Schuepp, P. H. et al., 21.3–672
Hailstone melting
Sulakvelidze, Ia. G., 21.11–420
Hailstone shapes
Bailey, I. H. et al., 21.1–640
Morgan, G. et al., 21.5–641
Hailstone structure
Bailey, I. H. et al., 21.1–640
Levi, L. et al., 21.6–620
Macklin, W. C. et al., 21.1–641
Morgan, G. et al., 21.5–641
Prodi, F., 21.12–548
Hailstones lobe structures
Knight, C. A., 21.11–419
Hailstones structure studies
Knight, C. A., 21.11–417
Hailstorm analysis
Chepovskaia, O. I., 21.11–416
Chisholm, A. J., 21.3–83
Dennis, A. S. et al., 21.6–619
Koren, O., 21.5–139
Pell, J., 21.4–301
Staude, R., 21.12–546
Hailstorm characteristics
Bordovskaia, L. I., 21.11–415
Hailstorm modification
Joint Hail Research Project, 21.4–300
Sinclair, P. C., 21.7–638
Hailstorm research
Joint Hail Research Project, 21.4–300
Hailstorms, Alberta, Canada
Lawford, R. G. et al., 21.1–635
Hair hygrographs
Cotton, R. F., 21.11–96
Halo on Mars
Davydov, V. D., 21.11–578
Harmonic analysis
Sirakov, D. E. et al., 21.5–31
Harmonic analysis, 9-yr periodicity
Takahashi, K., 21.8–521
Hartley bands
Vigroux, E., 21.8–157
Haze
Charlson, R. J. et al., 21.7–137
Eldridge, R. G., 21.3–648
Filippov, V. L. et al., 21.7–332
Haze effects
Ahlgiust, N., C. R. J., 21.11–491
Haze effects on ozone measurement
DeLuisi, J. J., 21.1–455
Haze penetration
Lufkin, D. H., 21.2–345
Haze structure studies
Reeser, W. K., 21.2–346
Haze transmission
Collins, Dave G. et al., 21.7–326
Georgievskii, Iu. S., 21.4–374
Health resort climates
Petrovic, S., 21.9–391
Steinhauser, F., 21.8–558
Health resort climatology
Hentschel, G., 21.5–671
Moerikofer, W., 21.8–552
Heat and moisture balance
Mkhitarian, A. M., 21.4–204
Heat balance
Peev, B. et al., 21.2–308
Potapova, L. S., 21.9–209
Wendler, G., 21.5–382
Zhukov, V. M., 21.9–212
Heat balance calculation
Villa Nova, N. A., 21.12–404
Heat balance in rice field
Vershinin, A. P. et al., 21.5–435

Heat balance of atmosphere
Grasnick, K. H., 21.12–403
Heat balance of cotton fields
Muminov, F. A., 21.1–417
Heat balance of crops
Ral'tsevich, N. D., 21.6–344
Heat balance of Earth's surface
Daigot, L. S. et al., 21.2–204
Heat balance of forests
Ved', I. P., 21.5–427
Heat balance of glaciers
Markin, V. A., 21.2–624
Wendler, G. et al., 21.10–775
Heat balance of irrigated fields
Nesina, L. V., 21.8–315
Heat balance of snow
Weller, G., 21.8–449
Heat balance of stratosphere
Murgatroyd, R. J., 21.1–392
Heat balance of troposphere
Bernhardt, K., 21.12–405
Murgatroyd, R. J., 21.1–392
Heat balance research
Berliand, T. G., 21.9–11R
Grasnick, K. H., 21.7–226
Heat budget
Berz, G., 21.10–214
Miller, D. H., 21.2–86
Mishchenko, Z. A., 21.7–314
Vowinckel, E., 21.9–210
Heat budget determination
Baskerville, G. L. et al., 21.5–380
Stearns, C. R., 21.7–315
Heat budget of ice caps
Ambach, W., 21.10–776
Heat budget of lakes
Bryson, R. A. et al., 21.5–771
Heat budget of ocean
Vaupel, A., 21.6–838
Heat budget of sea ice
Untersteiner, N., 21.7–826
Heat budget of seas
Huyer, A. et al., 21.9–734
Kort, V. G., 21.2–707
Strokina, L. A. et al., 21.4–668
Worthington, L. V., 21.12–756
Heat budget of troposphere over seas
Grasnick, K. H., 21.12–403
Hastenrath, S., 21.7–273
Heat exchange
O'Brien, E. E. et al., 21.3–569
Heat exchange coefficients
Bortkovskiĭ, R. S. et al., 21.3–490
Heat exchange in seas
Vaupel, A., 21.6–838
Heat exchange in snow
Yen, Y.-C. et al., 21.4–297
Heat exchange, sea–atmosphere
Moriyasu, S., 21.7–849
Heat flow over ocean
Bortkovskiĭ, R. S. et al., 21.7–839
Heat flow through ocean floor
Lachenbruch, A. H. et al., 21.9–736
Von Herzen, R. P. et al., 21.10–829
Heat flux
Berz, G., 21.10–214
Panofsky, H. A. et al., 21.1–352
Readings, C. J. et al., 21.10–330
Vereshchagin, M. A., 21.7–244, –245
Heat flux calculations
Kaimal, J. C., 21.2–171
Heat flux over oceans
Hoeber, H., 21.7–484
Perry, A. H., 21.7–486
Reshetova, O. V., 21.9–260
Walmsley, J. L., 21.10–260
Heat islands
East, C., 21.5–245
Munn, R. E., 21.4–354
Heat loss from lakes
Anderson, 21.2–616
Heat loss from buildings
Anapol'skaia, L. E. et al., 21.6–422
Balalla, O. A., 21.5–468
Lukina, F. Z., 21.5–670
Heat sources and sinks
Fletcher, J., 21.12–572
Leovy, C., 21.2–91
Struning, J. O. et al., 21.5-410
Heat tolerance in animals
Dawson, T. J., 21.12–567
Heat transfer
Green, J. S. A., 21.3–411
Leovy, C. B., 21.3–423
Levenko, A. A., 21.10–31R
Mkhitarian, A. M., 21.4–204
Perry, A. H., 21.7–486
Swinbank, W. C., 21.1–499
Kuo, H. L., 21.5–165
Heat transfer from hailstones
Bailey, I. H. et al., 21.1–638
Heat transfer in water bodies
Rossinskiĭ, K. I., 21.10–43R
Heat transfer, sea–atmosphere
Sevalkina, N. A., 21.9–211
Heat transfer through buildings
Balalla, O. A., 21.5–468
Lukina, F. Z., 21.5–670; 21.6–430
Selivanov, N. P. et al., 21.5–431
Heat transport
Vereshchagin, M. A., 21.7–244, –245
Heat transport in oceans
Smirnova, A. I., 21.10–806
Heat wave effects on health
U. S. Environmental Science Services Administration, 21.2–192
Heated anemometers
Bergwn, J. D., 21.6–81
Heavy precipitation distribution
Peguy, Ch. P. et al., 21.6–603
Heavy precipitation frequencies
Hosokawa, K., 21.9–317
Heavy rain in short periods
Fukui, E., 21.8–409
Heavy rainfall
Finch, C. R., 21.10–390

Fox, T., 21.7–616
Goto, T., 21.2–263
Kazariants, E. S. et al., 21.9–319
Matsumoto, S. et al., 21.8–410, –411
Nakajima, C., 21.11–387
Ponomarenko, S. I. et al., 21.1–614, –615

Heavy rainfall characteristics
Dhar, O. N. et al., 21.8–395
Steinhausser, H., 21.8–413

Heavy rainfall data
Fukui, E., 21.8–408

Heavy rainfall data analysis
Steinhausser, H., 21.8–413

Heavy rainfall distribution
Chistiakov, A. D. et al., 21.1–613
Nakajima, C., 21.11–381
Saha, A. T., 21.10–393
Salter, P. R. S., 21.1–616

Heavy rainfall forecasting
Gocho, Y., 21.12–148, –149
Lowndes, G. A. S., 21.9–91
Miyazono, S., 21.11–118
Palmieri, S. et al., 21.7–98
Quinn, W. H. et al., 21.6–139
Ramage, C. S., 21.9–92

Heavy rainfall study
Veselova, G. K., 21.12–397

Heavy snowfall
Devine, J. C., 21.8–435
Goto, T., 21.8–431
Jail, M., 21.7–630
Lipovskaia, V. I., 21.4–291
Miyazawa, S., 21.6–617
Moskalev, Iu. D., 21.11–394
Pierce, C. H., 21.8–436

Heavy snowfall frequencies
Chistiakov, A. D., 21.12–544

Heavy snowfalls conditions
Iakovleva, L. P., 21.12–145

Heavy snowstorm forecasting
Spiegler, D. B., 21.11–119

Height–Azimuth–Range-Position–Indicator (HARPI)
Zawadzki, I. I., 21.12–106

Helicopter dissipation of fog
U. S. Air Force, Cambridge Res. Labs., Bedford, Mass., 21.1–263

Heilcopters
Plank, V. G. et al., 21.3–303

Heliocentric dust cloud
Kuiser, C. B., 21.6–714

Heliosphere
Lanzerotti, L. J. et al., 21.10–625

Helium in atmosphere
Johnson, H. E., 21.1–279

Helium in auroral particles
Axford, W. I., 21.6–166

Helium in exosphere
Shefov, N. N., 21.7–214

Helium in prominences
Morozhenko, N. N., 21.12–635

Helium in sea water
Clarke, W. B. et al., 21.2–724
Fairhall, A. W., 21.9–700

Helium in solar disk
Ngan, N., 21.12–625

Helium in solar wind
Ogilvie, K. W., 21.11–297

Helium nuclei in cosmic rays
Von Rosenvinge, T. T. et al., 21.8–309

Hemispheric circulation
Astapenko, P. D. et al., 21.1–373

Herbicide–water effects
Rozhnov, G. I., 21.4–415

Herzberg bands
Degen, V., 21.11–286

Heterogenous surfaces
Blanchet, J. et al., 21.3–286, –287

High altitude acclimatization
Jungmann, H., 21.8–548

High altitude aerosols
U. S. Air Force. Office of Aerospace Research, Research Review, 21.11–162

High Altitude Clear Air Turbulence Project
Waco, D. E., 21.11–336

High altitude effects on health
Berry, P. R., 21.8–534
Gartmann, J., 21.8–541
Hochli, M., 21.8–544
Zuidema, P., 21.8–561

High altitude effects on man
Halhuber, M. J., 21.8–543
Jungmann, H., 21.8–548

High altitude ozone distribution
Gebhart, R., 21.6–210

High Altitude Sounding Projectile (HASP)
Sloan, G. J., 21.11–156

High frequency oscillations filtration
Clodman, S., 21.3–410

High level anticyclones
Takasugi, M. et al., 21.7–309

High mountain environment project
Marcus, M. G., 21.2–314

High ocean waves
Yamada, H. et al., 21.1–747

High Resolution Infrared Radiometer (HRIR)
La Violette, P. E. et al., 21.9–731
Warnecke, G. et al., 21.8–51

High resolution infrared radiation data analysis
Vukovich, F. M., 21.5–493

High resolution infrared radiation measurement
Pouquet, J., 21.1–155

High speed photography
Berg, T. G. et al., 21.5–103

High temperature duration
Gazzola, A. et al., 21.5–479

High temperature frequencies
Stoenescu, M. S. et al., 21.6–443
Tattelman, P. I. et al., 21.5–481
Tepes, E., 21.6–444

High temperature synoptic conditions
Sorkina, V. N., 21.7–440

High water discharge
  Rudometov, M. V., 21.12–666
High water discharges computation
  Chekushkina, T. A., 21.12–668, –703
Hiss in ionosphere
  Jorgensen, T. S., 21.10–544
Hiss in polar regions
  Jorgensen, T. S., 21.10–544
Historic climate changes
  Panzram, H., 21.11–460
  Pinna, M., 21.6–646
Historic floods
  Pardé, M., 21.7–783
Historic weather records
  Hughes, P., 21.10–28
  Klemm, F., 21.10–49
  Paterson, D. C., 21.3–118
Historical climates
  Claiborne, R., 21.10–440
History of astronomy
  Wildt, R., 21.5–705
History of atmospheric pollution
  Lodge, J. P., Jr. (ed.), 21.10–142
History of atmospheric research
  Grasnick, K. H., 21.7–226
History of auroral physics
  Chapman, S., 21.10–503
History of Beaufort scale
  Kinsman, B., 21.5–28
History of Chinese science
  Needham, J., 21.10–10
History of Dead Sea
  Markov, K. K., 21.4–631
History of hurricane research
  Ludlum, D. M., 21.8–228
History of hurricanes
  Volker, A., 21.8–231
History of Kew Observatory
  Blackwell, M. J., 21.3–95
  Collingbourne, R. H., 21.4–125
  Jacobs, L., 21.3–96
  Scrase, F. J., 21.3–99
History of Leningrad, Central Geophysical Observatory
  Budyko, M. I., 21.10–33
History of Leningrad, State Hydrological Institute
  Chebotarev, A. I., 21.11–670
History of lightning research
  Uman, M. A., 21.8–638
History of meteorological instruments
  Middleton, W. E., 21.4–21
History of meteorological networks
  Potter, J. G., 21.10–38
History of meteorological observatories
  Skeib, G., 21.10–39
History of meteorological services
  Hughes, P., 21.10–5
  Sussenberger, E., 21.1–76
History of oceanography
  Dinsmore, R. P., 21.4–629
History of meteorology
  ESSA [Wash., D. C.], 21.8–1
History of radiation research
  Möller, F., 21.10–264
History of radiosondes
  Harrison, D. N., 21.5–143
History of Royal Meteorological Institute, Belgium
  Maenhout, A., 21.5–15
History of soil science
  Ewald, E., 21.9–462
History of Soviet meteorology
  Nilandrov, V. Ia., 21.11–13
History of Soviet oceanography
  Muromtsev, A. M., 21.12–736
History of thermometry
  Dufour, L., 21.5–110
History of U. S. Weather Bureau
  ESSA [Wash., D. C.], 21.8–11
  White, R. M., 21.10–15
Hoar frost effects
  Ved', I. P., 21.5–427
Hoar frost frequencies
  Peligrad, D. et al., 21.2–194
Holocene
  Borisov, P. M., 21.1–662
Holocene climates
  Grichuk, V. P., 21.7–672
  International Associatio for Quaternary Research, 21.5–667
Holocene deposits
  International Associatio for Quaternary Research, 21.5–667
Homogeneous turbulence
  Monin, A. S., 21.7–256
Hop blight
  Prejml, K., 21.4–347
Horizontal diffusion
  Murgatroyd, R. J., 21.1–494
Horizontal pressure gradient
  Flocchini, G., 21.3–577
  Mamontov, N. V. et al., 21.1–473
Horizontal temperature gradient
  Mamontov, N. V. et al., 21.2–173
Horizontal turbulent exchange
  Pinus, N. Z., 21.8–333
Horizontal visibility
  Rozenberg, G. V., 21.3–686
Horizontal water vapor flux
  Rasmusson, E. M., 21.4–87
Horizontal wind distribution
  Huss, P. O., 21.6–516
Horticulture
  Davis, D. R., 21.5–221
Hot spells
  Sorkina, V. N., 21.7–440
Hot wire anemometers
  Biggs, W. G., 21.1–482
  Brunelle, P. E. et al., 21.10–76
Hourly temperature
  Bailey, H. P., 21.3–104
Hovercraft
  Environmental Science and Technology [Wash., D. C.], 21.2–527
Human bioclimatology
  Iltis, H. H. et al., 21.8–547
Human ecology
  Beggess, W. R., 21.1–285

Human survival
U. S. Arctic, Desert, and Tropic Information Center, Maxwell AF Base, Ala., 21.11–477
Humboldt, Alexander von
Engelmann, G., 21.8–846
Humid and subhumid zones
Krul, V. F. J. M., 21.11–673
Humid tropical climates
U. S. Army Tropic Test Center, Fort Clayton, C. Z., 21.5–658
Humidity above the Caucasus
Tsereteli, N. V., 21.10–356
Humidity anomalies
Masterskikh, M. A., 21.2–189
Humidity calculations
Afinogenov, L. P. et al., 21.8–25
Humidity data analysis
Afinogenov, L. P. et al., 21.8–25
Khodakova, V. P., 21.5–471
Oliveira, A. S. de, 21.7–18
Sapozhuikova, S. A. et al., 21.2–181
Humidity data from satellites
Panin, B. D., 21.11–17R
Humidity distribution
Starr, V. P. et al., 21.6–535
Humidity effects on man
Piggott, M. R., 21.4–254
Humidity effects on nuclei
Winkler, P., 21.6–190
Humidity effects on sound absorption
Monk, R. G., 21.6–681
Humidity effects on swine
Morrison, S. R. et al., 21.7–521
Humidity estimates
Conrath, B. J., 21.3–75
Kondrat'ev, K. Ia., 21.3–565
Humidity estimates from satellites
Boldyrev, V. G., 21.2–207
Conrath, B. J., 21.2–238
Smigielski, F. J., 21.12–42
Humidity field near the ground
Tsereteli, N. V., 21.10–358
Humidity in Georgia
Tsereteli, N. V., 21.10–358
Humidity instruments
Dandaron, Z. D., 21.3–199
Korobochkin, I. V. et al., 21.2–28
Pontikis, C. et al., 21.6–32; 21.7–23
Reznikov, G. P., 21.9–70
Humidity measurement techniques
Bardeau, H., 21.1–192
Bean, B. R., 21.12–86
Coantic, M., 21.11–95
Petrova, M. S. et al., 21.4–7
Humidity measurements
Gandino, C., 21.3–200
Humidity–nuclei effects
Frankenberger, E., 21.6–536
Humidity–precipitation amount relationships
Dhar, O. N. et al., 21.10–388
Mukherjee, B. K., 21.6–537
Humidity profiles
Komarov, V. S., 21.9–274
Koprova, L. I., 21.12–457
Mount, W. D., 21.12–37
Humidity recorders
Gandino, C., 21.3–200
Humidity refractive index effects
Bean, B. R., 21.12–319
Humidity regime
Anapol'skaia, L. E. et al., 21.6–437
Marinova, G., 21.10–357
Humidity sensors
Meeks, C. H., 21.1–187
Humidity stratification
Budashkina, L. V., 21.12–453
Humidity–thunderstorm relationships
Balogh, Z. et al., 21.3–482
Humidity transfer
Dymnikov, V. P., 21.3–639
Humidity variations
Elagina, L. G., 21.8–347
Humidity–visibility relationships
Roussel, M. R. et al., 21.8–569
Humus formation
Neunylov, B. A. et al., 21.10–552
Hurricane "Betsy" (1965)
Machta, L., 21.4–258
Merritt, E. S. et al., 21.5–419
Hurricane "Camille" (1969)
Davis, W. J., 21.7–293
DeAngelis, R. M., 21.7–294
ESSA News [Rockville, Md.], 21.3–460
ESSA World [Rockville, Md.], 21.7–287
Jones, M. E., 21.12–383
Roberts, N. C., Jr., 21.8–230
Rohlfs, A. J., 21.7–289
Thompson, H. J., 21.9–350
U. S. Weather Bureau, 21.5–421
Hurricane "Cleo" (1964)
Rao, G. V., 21.3–265
Hurricane "Debbie" (1969)
ESSA News [Rockville, Md.], 21.3–460; 21.5–210
Gentry, R. C., 21.10–121
Jones, M. E., 21.12–383
Mueller, M., 21.4–30
Hurricane "Faith" (1966)
Halt, D. H., 21.12–381
Hurricane "Hilda" (1964)
Merritt, E. S. et al., 21.5–419
Hurricane "Inez" (1966)
Franceschini, G. A. et al., 21.4–104
Merritt, E. S. et al., 21.5–419
Hurricane analysis
Albert, M. R., 21.5–420
Hurricane circulation
Turner, J. S., 21.1–407
Hurricane cloud bands
Merritt, E. S. et al., 21.5–419
Hurricane damage
Davis, W. J., 21.7–293
DeAngelis, R. M., 21.7–294
ESSA News [Rockville, Md.], 21.3–460

Hurricane damage at sea
Rohlfs, A. J., 21.7–289
Hurricane data, 1969
Sugg, A. L., 21.9–245R
Hurricane development models
Pearce, R. P., 21.3–468
Hurricane dynamics
Dunst, M., 21.5–415
Turner, J. S., 21.1–407
Hurricane effects
Franceschini, G. A. et al., 21.4–104
Hurricane flood protection
Pawlik, C. L., 21.6–334
Hurricane floods
Thompson, H. J., 21.9–350
Hurricane forecasting
Renard, R. J., 21.3–242
Simpson, R. H., 21.7–99
Hurricane forecasting models
Berkofsky, L., 21.4–107
Hurricane frequencies
Kodrau, O. D., 21.4–109
Hurricane genesis
Carlson, T. N., 21.12–384
Hurricane mechanics
Hubert, L. F., 21.4–108
Shabbar, M., 21.7–291
Smith, C. L., 21.5–416
Hurricane models
Dunst, M., 21.5–415
Temple, J., 21.1–406
Hurricane modification
ESSA News [Rockville, Md.], 21.5–210
Gentry, R. C., 21.3–299
Hurricane modification by cloud seeding
Environmental Science and Technology [Wash., D. C.], 21.8–118
Gentry, R. C., 21.10–121
Jones, M. E., 21.12–383
Senn, H. V., 21.11–269
Hurricane movement forecasting
Rao, G. V., 21.3–265
Sanders, F., 21.3–266
Temple, J., 21.1–406
Hurricane–oceanic upwelling effects
O'Brien, J. J., 21.7–288
Hurricane rainbands
Halt, D. H., 21.12–381
Srivastava, R. C. et al., 21.8–382
Hurricane rainfall
Hartman, L. M. et al., 21.7–620
Singleton, F. et al., 21.6–338
Thompson, H. J., 21.9–350
Hurricane research
Ludlum, D. M., 21.8–228
Senn, H. V., 21.11–269
Temple, J., 21.1–406
Hurricane sea temperature relationships
Perlroth, I., 21.3–469
Hurricane season reports
American Oceanography [Houston, Tex.], 21.10–247
ESSA News [Rockville, Md.], 21.1–403
Hubert, L. F., 21.4–108
Steinborn, E., 21.2–98
Hurricane seeding
Mueller, M., 21.4–30
Hurricane structure
Shuleĭkin, V. V., 21.4–103
Hurricane surge
Bodine, B. R., 21.3–458
Sugg, A. L., 21.9–735
Hurricane theories
Shabbar, M., 21.7–291
Hurricane warning improvement
Albert, M. R., 21.5–420
Hurricane warning services
ESSA News [Rockville, Md.], 21.1–403
ESSA World [Rockville, Md.], 21.7–287
Hurricane wind computation
Holliday, C., 21.3–461
Hurricane wind measurements
Glover, K. M., 21.3–79
Hurricane wind maxima
Hubert, L. F. et al., 21.1–408
Hurricane winds
Kodrau, O. D., 21.4–109
Shuleĭkin, V. V., 21.4–103
Snitkovskiĭ, A. I. et al., 21.1–516
Hurricanes
Anthes, R. A., 21.11–266
Roberts, N. C., Jr., 21.8–230
Volker, Al., 21.8–231
Hydraulic engineering
Bratsev, L. A. et al., 21.5–752
Hydraulic engineering calculations
Martin, C. S. et al., 21.10–562
Hydraulic engineering problems
Ahuja, P. et al., 21.7–784
Austford, V. M., 21.6–780
DeCooke, B. G., 21.1–643
Popov, V. V. et al., 21.2–569
Hydraulic models
Rathbun, R. E. et al., 21.10–684
Hydraulics of river channels
Gonzalez, D. D., 21.12–710
Hydrocarbons in air
Mrose, H., 21.3–323
Stephens, E. R., 21.12–264
Hydrocarbons in river water
Hellmann, H., 21.12–695
Hydrochemical observations
Akademiia Nauk SSSR, Okeanograficheskaia Komissiia, 21.3–739
Hydrochemistry of estuarine waters
Simonov, A. I., 21.11–789
Hydrochemistry of rivers
Pavelko, I. M. et al., 21.2–572
Hydroclimatological regimes
Chaumont, M., 21.4–309
Hydrodynamic equations
Clodman, S., 21.3–410
Gavrilin, B. L. et al., 21.6–275
Ivanovskiĭ, A. I. et al., 21.7–160
Sadokov, V. P., 21.2–85
Hydrodynamic forecasting techniques
Gambo, K., 21.5–159
Marchuk, G. I. et al., 21.5–168
Hydrodynamic pressure
Alberty, R. L., 21.5–593

Hydrodynamic textbooks
Le Mehaute, B., 21.12–735
Hydrodynamic turbulence
Makhan'kov, V. G. et al., 21.5–359
Hydrodynamics of rivers
Borovikova, L. N., 21.12–708
Zhelezniakov, G. V., 21.11–738
Hydrofoils
Hough, H. R. et al., 21.4–407
Hydrogen-alpha emission in night airglow
Shefov, N. N. et al., 21.9–219
Hydrogen-alpha line
Tsuruda, M., 21.2–374
Hydrogen–alpha line in solar spectra
Janssens, T. J., 21.11–622
Hydrogen content of air
Fahr, H. J., 21.9–118
Hydrogen emission from solar flares
Sakurai, K., 21.7–384
Hydrogen geocorna
Meier, R. R., 21.6–390
Tinsley, B. A., 21.1–321
Hydrogen in exosphere
Donahue, T. M., 21.3–385
Shefov, N. N., 21.7–214
Hydrogen in geocorona
Shefov, N. N., 21.7–214
Hydrogen in Jupiter atmosphere
Fink, U. et al., 21.6–705
Hydrogen in Mars atmosphere
McElroy, M. B. et al., 21.10–620
Hydrogen in planets
Henry, R. J. W., 21.5–704
Hydrogen in upper atmosphere
Popova, L. V., 21.10–42R
Tinsley, B. A., 21.1–321
Hydrogen in Venus atmosphere
Dalgarno, A. et al., 21.9–497
Hydrogen measurement instruments
Schmidt, U., 21.11–106
Hydrogen night sky emission
Reay, N. K., 21.1–469
Hydrogen sulfide in soil
Ford, H. W. et al., 21.4–395
Hydrogen sulfides in sea water
Cline, J. D., 21.2–718
Hydrogeological charts
Castany, G. et al., 21.8–789
Martini, H. J., 21.9–628
Olson, G. W., 21.8–676
Tricart, J., 21.8–792
Hydrogeological studies
Castany, G. et al., 21.9–612
Chebotarev, A. I. et al., 21.10–712
De Geer, J., 21.4–540
Meyboom, P., 21.9–637
Toth, J., 21.12–686
Hydrogeology
Ivanov, K. E. et al., 21.2–555
Vostokova, E. A. et al., 21.2–566
Hydrogeology of Argentina
Pernas, R. E., 21.9–629
Hydrogeology of Australia
Simpson, E. S., 21.7–792
Hydrogeology of Baton Rouge, Louisiana
Smith, C. G., Jr., 21.10–727
Hydrogeology of Belgium
Gulinck, M., 21.9–627
Hydrogeology of Buenos Aires Province, Argentina
Ruiz Huidobro, O., 21.9–631
Hydrogeology of Columbia Basin
Newcomb, R. C., 21.4–546
Hydrogeology of Contesti-Titu Region, Rumania
Tenu, A. et al., 21.1–782
Hydrogeology of Craiova Area, Rumania
Constantinescu, G. P., 21.10–722
Hydrogeology of Crimean Mts., Ukrainian S.S.R.
Nekliudov, G. D., 21.11–703
Hydrogeology of Donbas Region, Ukrainian
Korzhenevskiĭ, B. A., 21.11–700
Hydrogeology of Far West Rand, South Africa
Enslin, J. F. et al., 21.9–624
Hydrogeology of Iran
Issar, A., 21.1–779
Hydrogeology of Jiu Basin, Rumania
Trufas, V., 21.4–548
Hydrogeology of La Rioja, Argentina
Sosic, M. V. J., 21.9–633
Hydrogeology of Lugansk Region, Ukrainian S.S.R.
Rakitina, A. P., 21.11–704
Hydrogeology of Magdalen Islands, Quebec, Canada
Dessureault, R., 21.9–623
Hydrogeology of Moldava Valley, Rumania
Cadere, R. et al., 21.4–535
Hydrogeology of Navajo and Hopi Indian Reservations
Cooley, M. E. et al., 21.4–538
Hydrogeology of Netherlands
Visser, W. A., 21.7–793
Hydrogeology of New Jersey, United States
Widmer, K., 21.9–634
Hydrogeology of Pughia, Italy
Cotecchia, V., 21.9–636
Hydrogeology of Scania, Sweden
Nilsson, K., 21.4–547
Hydrogeology of Sciota Valley, Ohio
Norris, S. E. et al., 21.4–562
Hydrogeology of southern Sweden
Larsson, I., 21.4–545
Hydrogeology of Tarkhankutsk Region, Ukrainian S.S.R.
L'vova, E. V., 21.11–701
Hydrogeology of Thonon-les-Bains, France
Blanc, P. et al., 21.6–768

Hydrogeology of Turnu Severin, Rumania
  Protopopescu-Pache, E. I. et al., 21.1–784
Hydrogeology of Ukrainian S.S.R.
  Boĭko, L. I. et al., 21.11–698
Hydrogeology of Upper Capibaribe Basin, Brazil
  Chada Filho, L. G. et al., 21.4–536
Hydrograph analysis
  Fashchevskiĭ, B. V., 21.11–428
  Kulandaiswamy, V. C. et al., 21.9–585
  Rodda, J. C., 21.1–773
Hydrograph calculations
  Abdel-Razaq, A. Y. et al., 21.6–625
  Ayers, H. D. et al., 21.9–651
  Befani, A. N., 21.2–547
  Byshovets, L. B., 21.4–580
  Chekushkina, T. A., 21.12–669
  Glazyrin, G. E., 21.9–34R
  Holtan, H. N. et al., 21.10–699
  Komarov, V. D. et al., 21.2–536
  Leskov, G. A., 21.10–700
  Mokliak, V. I., 21.12–672
  Nechaeva, N. S., 21.2–584
  Platagea, G., 21.10–717
  Rodda, J. C., 21.1–773
  Sapozhnikov, V. I., 21.10–702
  Sokolovskiĭ, D. L., 21.7–781
  Vishnevskiĭ, P. F., 21.12–673
  Voskresenskiĭ, K. P., 21.7–782
  Zhelezniak, I. A., 21.4–587
Hydrographic calculations
  Akin'shin, V. V. et al., 21.2–533
Hydrographic data
  Zoutendyk, P. et al., 21.6–746
Hydrographic data, Hungary
  Hungary. Vizgazdalkodasi Tudomanyos Kutato Intezat, 21.9–205R
Hydrographic observations
  Duing, W. et al., 21.5–512
Hydrographic survey
  Kawakami, K., 21.11–62R
Hydrographic surveys of Patuxent River
  Owen, W., 792
Hydrologic calculations
  Shuliakovskiĭ, L. G., 21.9–80R
  Stall, J. B. et al., 21.2–586
Hydrologic conferences
  American Society of Mechanical Engineers, 21.7–769
  Environmental Science and Technology [Wash., D. C.], 21.8–696
  International Conference on Water for Peace, Wash., D. C., 21.4–501
  Soveshchanie po Voprosam Kompleksnogo Izucheniia Rezhima Poverkhnostnykh i Podzemnykh Vod v Karstovykh Raionakh, 1st, 1966, 21.7–774
  Symposium on Analogue and Digital Computers in Hydrology, Tucson, 21.3–736
  Walker, H. J., 21.8–799
Hydrologic computer applications
  Akin'shin, V. V., 21.2–533
Hydrologic cycle
  Barry, R. G., 21.1–547
  Brock, E. B., 21.5–545
  Bykov, V. D. et al., 21.4–512
  Dainty, J., 21.4–513
  Drozdov, O. A., 21.9–22R
  Katsurayama, K., 21.6–750
  Kornienko, V. I., 21.5–543
  Kuvshinova, K. V., 21.9–271
  More, R. J., 21.1–548
  Nace, R. L., 21.1–549
  Salverda, Z., 21.2–528
Hydrologic cycle studies
  Storr, D., 21.9–338
Hydrologic data
  Annuaire Hydrologique de Belgique, 21.1–130
  Ellis, M. J. et al., 21.1–767
  Finland. Hydrografinen Tomisto, 21.2–521
  Hely, A. G. et al., 21.8–51
  Israel. Hydrological Service, 21.2–520
Hydrologic data analysis
  Decoursey, D. G. et al. 21.6–747
  Dzholov, G. D. et al., 21.4–508
  Williams, R. et al., 21.9–573
  Yevjevich, V. et al., 21.5–745
Hydrologic data analysis techniques
  Lowery, M. D., 21.12–65
Hydrologic data catalogs
  U. S. Geological Survey, 21.8–774
Hydrologic data processing
  Clerc, F., 21.7–775
  Davies, D. A., 21.8–779
  Dubreuil, P. et al., 21.7–808
  Grigor'ev, V. I., 21.11–680 –730
  Penny, J. P. et al., 21.9–575
  Valiron, F., 21.8–780
Hydrologic data summaries
  Cordova, R. M., 21.9–576
Hydrologic earthquake hazard
  Goldthwait, R. P., 21.3–734
Hydrologic equipment
  Clerc, F., 21.7–775
  Davies, D. A., 21.8–779
Hydrologic forecasting
  Flanders, A. F., 21.4–303
  Lull, H. W. et al., 21.8–797
  Rakhmanov, V. V. et al., 21.2–523
Hydrologic instrumentation
  Clerc, F., 21.7–775
  Glassey, E. A., 21.10–682
  Hydrology Symposium, 7th, Victoria, B.C., Oct. 8–9, 1969, 21.11–101
  McCulloch, J. S. G. et al., 21.9–67
  Mascitti, F., 21.9–68

ydrologic investigations
Kambhu, M. L. X. et al., 21.9–571
Stephenson, G. R. et al., 21.8–795
Whetstone, G. W. et al., 21.8–781
ydrologic literature
Rigby, M., 21.8–773
ydrologic maps
Hinrich, H., 21.12–657
Wit-Jóźwik, K., 21.6–742
ydrologic measurement chniques
Kennedy, J. M. et al., 21.1–151
Langbein, W. B., 21.4–511
Robinova, C. J., 21.2–517
ydrologic measurements
Clerc, F., 21.7–775
Williams, R. et al., 21.9–573
ydrologic models
Avias, J., 21.1–769
Cruickshank, V. C. et al., 21.4–506
Dawdy, D. R., 21.4–507
Decoursey, D. G. et al., 21.6–747
Eagleson, P. S., 21.10–683
Freeze, R. A. et al., 21.6–748
Hall, M. J., 21.2–526
Kibler, D. F., 21.11–678
Le Saget, A., 21.11–705
Riley, J. P., 21.11–674
Witherspoon, D. F., 21.6–787
ydrologic networks
Brown, I. C., 21.9–635
Durrant, E. F., 21.8–778
Gale, R. M., 21.9–647
Kiriak, V., 21.10–715
Rodriguez, A., 21.10–718
Strupczewski, W., 21.7–776
ydrologic observation chniques
Hydrology Symposium, 7th, Victoria, B.C., Oct. 8–9, 1969, 21.11–101
ydrologic regime
Kliukin, N. K., 21.4–305
Nachazel, K., 21.2–522
ydrologic research
Baird, R. W. et al., 21.10–679
Bock, P., 21.3–147
Bocker, T., 21.11–707
Chiriac, V., 21.5–642
Espildora, B., 21.7–771
Havlick, S. W. et al., 21.5–744
Heindl, L. A., 21.9–558
International Hydrological Decade. U. S. National Committee for the I.H.D., 21.7–801
Lebrun, J. et al., 21.9–572
Ragan, R. M., 21.6–744
Rodier, J. A., 21.6–745
World Meteorological Organization, 21.8–13
Yevjevich, V. M., 21.9–568
Hydrologic research projects
Japan. Ministry of Health, 21.9–570
Passino, R., 21.6–741
Hydrologic seasons
Fal, B., 21.5–643
Hydrologic services
Kisin, I. M. et al., 21.3–19
Hydrologic station networks
Kabanova, K. S., 21.12–658
Karasev, I. F., 21.11–679
Hydrologic stations
Murr, K., 21.3–97
U. S. Geological Survey. Office of Water Data Coordination, 21.8–774
Hydrologic studies
National Research Council, Wash., D. C., Div. of Earth Sciences, 21.3–735
Page, L. M., 21.2–273
Vorhis, R. C., 21.2–515
Waller, R. M., 21.2–516
Hydrologic structure
Khimitsa, V. A., 21.4–304
Hydrologic surveys
Ramey, E. H., 21.12–654
Rodier, J. A., 21.6–745
Hydrologic symposia
Eriksson, E. et al., 21.4–541
Hydrology Symposium, 7th, Victoria, B.C., Oct. 8–9, 1969, 21.11–101
International Symposium on Floods and their Computation, Leningrad, 1967, 21.8–472
Nind, T. E. W., 21.2–513
Sokolov, A. A., 21.11–433
Sokolovskiĭ, D. L. et al., 21.8–477
Hydrologic telemetering system
Dimaksian, A. M., 21.5–746
Farnes, P. E. et al., 21.10–401
Hydrologic terminology
Watkins, J. R., 21.8–784
Hydrologic tracers
Brown, R. M. et al., 21.8–341
Chase, E. B., 21.11–682
Knutsson, G., 21.4–572
Meyer, G. L., 21.7–623
Mosetti, F., 21.10–681
Sarvary, I., 21.1–788
Wilson, J. F., Jr., 21.10–689
Hydrologic year
Svanidze, G. G. et al., 21.2–613
Hydrologic yearbooks
Annuaire Hydrologique de Belgique, 21.1–130
Israel. Hydrological Service, 21.2–520
Hydrological data for Belgium
Annuaire Hydrologique de Belgique, Brussels, 21.11–66R
Hydrological data for Rumania
Lazarescu, D., 21.12–660
Hydrological data for Utah
Robinson, G. B., Jr., 21.9–227R
Hydrological forecasting
International Hydrological Decade, 21.4–543
Liapunova, I. B., 21.12–661
Hydrological models
Mortier, F. et al., 21.2–279
Hydrological research, Spain
Spain. Centro de Estudios Hidrográficos, 21.11–103R
Hydrological statistics
Strupczewski, W., 21.3–47

Hydrological studies
Oklahoma. Water Resources Board, 21.4–307
Hydrology
Abbas, B. M., 21.11–95R
Aguerrevere, F. G., 21.11–95R
Al Rasheed, A. D., 21.11–95R
Angoedi, A., 21.11–95R
Australia. Dept. of National Development, 21.11–95R
Barrett, R., 21.11–95R
Belgium (Government), 21.11–95R
Ben Osman, M. E., 21.11–95R
Bloom, A. L., 21.10–676
Botswana (Republic). Water Development Committee, 21.11–95R
Campbell, J. L., 21.11–95R
Canada. Dept. of Energy, Mines and Resources, 21.11–95R
Choi, Bo Young, 21.11–95R
Clark, A. E., 21.11–95R
Congo (Republique), 21.11–95R
Cordeiro, N. V., 21.11–95R
Corrales, M. F., 21.11–95R
Donoso, R. J., 21.11–95R
Dresch, J. et al. (eds.), 21.9–556
Ethiopia. Water Resources Dept., 21.11–95R
Falkenmark, M., 21.11–95R
Fawaz, M., 21.11–95R
France. Secretariat Permanent pour l'Etude des Problemes de l'Eau, 21.11–95R
Germany (Federal Republic). Ministry of Health, 21.11–95R
Gillis, L., 21.11–95R
Grandi, A. L., 21.11–95R
Great Britain. Ministry of Housing and local Government, 21.11–95R
Guatemala. National Commission, 21.11–95R
Hyde, T. R., 21.11–95R
Hyelm Hansen, A., 21.11–95R
International Conference on Water for Peace, 21.11–95R
Italy. National Coordinating Committee, 21.11–95R
Japan. Japanese National Committee, 21.11–95R
Kajosaari, E., 21.11–95R
Konteatis, C. A. C., 21.11–95R
Kriel, J. P., 21.11–95R
Lambor, J., 21.6–737
Libizangomo, J., 21.11–95R
Libya. Ministry of Agriculture, 21.11–95R
L'vovich, M. I., 21.11–101R
Mohammedi Mohammed, J., 21.11–95R
Molina Garcia, H., 21.11–95R
Netherlands. Rijkswaterstaat, 21.11–95R
Noyan, K., 21.11–95R
Peru. National Committee for Water for Peace Conference, 21.11–95R
Philippines. National Committee, 21.11–95R
Pliego, J. M., 21.11–95R
Potter, K. E. D., 21.11–95R
Schmidt, F., 21.11–95R
Selim, M. A., 21.11–95R
Sosa, H. C., 21.11–95R
Thailand. Delegation to the Water for Peace Conference, 21.11–95R
Uganda. Ministry of Mineral and Water Resources, 21.11–95R
U. S. Water Resources Council, 21.11–95R
Uruguay (Office of Planning and Budget), 21.11–95R
Viet Nam. Ministry of Public Works, 21.11–95R
Hydrology bibliographies
International Associatio of Scientific Hydrology, 21.1–48
Llaverias, R. M., 21.1–7
Signor, D. C. et al., 21. 643
Hydrology bibliography
Baker, D. R., 21.11–48R
Hydrology climatology
Dolgushin, I. Iu., 21.2–2
Hydrology data processi
Grigor'ev, V. I., 21.11–6
Hydrology monographs
Shkliaev, A. S. et al., 21. 514
Hydrology of Africa
Karasik, G. Ia., 21.4–514
Hydrology of British C lumbia, Canada
Raudsepp, V., 21.11–423
Hydrology of California
Hickey, J. J., 21.7–777
Hydrology of Cape Ver Islands
Valente, N., 21.7–664
Hydrology of Chrzanow County, Poland
Dynowska, I. et al., 21. 557
Hydrology of Crimea B sin, Ukrainian S.S.R.
Gol'din, B. M., 21.7–772
Hydrology of East Pak stan
Matin, A., 21.8–452
Hydrology of Europe
Chernogaeva, G. M., 21.7 770
Hydrology of European Arctic Sector
Kuziemski, J., 21.4–502
Hydrology of Greece
Christides, O., 21.6–683
Hydrology of Jerusalem Region, Israel
Boddington, T. J. et a 21.8–770
Hydrology of Kirghiz S.S.R.
Il'iasov, A. T., 21.8–451
Hydrology of Northern Hemisphere
Shnitnikov, A. V., 21.2–52
Hydrology of Papua an New Guinea
Jones, H. L., 21.9–562

Hydrology of Poland
Fal, B., 21.5–643
Mikulski, Z., 21.4–503
Hydrology of southern Poland
Wit-Jóźwik, K., 21.6–742
Hydrology publications
Water Resources Review for March 1970, 21.9–567
Hydrology remote sensing
Llaverias, R. M., 21.1–768
Hydrology research projects
Nilsson, L. Y., 21.4–504
Hydrology textbooks
Mikulski, Z., 21.4–503
Morisawa, M., 21.2–605
Hydrology yearbooks
Finland. Hydrografinen Tomisto, 21.2–521
Hydromagnetic emissions
Fraser-Smith, A. C., 21.2–381
Hydromagnetic wave propagation in ionosphere
Van'ian, L. L., 21.12–311
Hydromagnetic waves in magnetosphere
Sundaram, A. K., 21.10–548
Hydromagnetic waves in solar atmosphere
Mackle, R., 21.9–546
Hydrometeor electricity
Reiter, R., 21.1–186
Hydrometeorological conferences
American Society of Mechanical Engineers, 21.7–769
Kliukin, N. K., 21.9–337
Paulhus, J. L. H., 21.6–623
Voronchuk, M. M., 21.12–28
Hydrometeorological instruments
McCulloch, J. S. G. et al., 21.9–67
Mascitti, F., 21.9–68
Shenderovich, I. M., 21.10–79
Hydrometeorological regime
Dublianskiĭ, V. N., 21.8–450
Manabe, S., 21.6–309
Raudsepp, V., 21.11–423
U. S. Soil Conservation Service, 21.10–409
Wilser, O., 21.5–72
Hydrometeorological research
Chiriac, V., 21.5–642
Hydrometeorological studies
Efimov, A. V., 21.9–336
Schwarz, Francis K. et al., 21.8–412
Vartazarov, S. Ia., 21.7–640
Hydrometeorology
Abbas, B. M., 21.11–95R
Aguerrevere, F. G., 21.11–95R
Al Rasheed, A. D., 21.11–95R
Angoedi, A., 21.11–95R
Australia. Dept. of National Development, 21.11–95R
Barrett, R., 21.11–95R
Belgium (Government), 21.11–95R
Ben Osman, M. E., 21.11–95R
Botswana (Republic). Water Development Committee, 21.11–95R
Campbell, J. L., 21.11–95R
Canada. Dept. of Energy, Mines, and Resources, 21.11–95R
Choi, B. Y., 21.11–95R
Clark, A. E., 21.11–95R
Congo (Republique), 21.11–95R
Cordeiro, N. V., 21.11–95R
Corrales, M. F., 21.11–95R
Donoso R., J., 21.11–95R
Ethiopia. Water Resources Dept., 21.11–95R
Falkenmark, M., 21.11–95R
Fawaz, M., 21.11–95R
France. Secretariat permanent pour l'Etude des Problemes de l'Eau, 21.11–95R
Germany (Federal Republic). Ministry of Health, 21.11–95R
Gillis, L., 21.11–95R
Grandi, A. L., 21.11–95R
Great Britain. Ministry of Housing and Local Government, 21.11–95R
Guatemala. National Commission, 21.11–95R
Hyde, T. R., 21.11–95R
Hyelm-Hansen, A., 21.11–95R
International Conference on Water for Peace, 21.11–95R
Italy. National Coordinating Committee, 21.11–95R
Japan. Japanese National Committee, 21.11–95R
Kajosaari, E., 21.11–95R
Konteatis, C. A. C., 21.11–95R
Kriel, J. P., 21.11–95R
Lambor, J., 21.6–737
Libizangomo, J., 21.11–95R
Libya. Ministry of Agriculture, 21.11–95R
Mohammedi Mohammed, J., 21.11–95R
Molina Garcia, H., 21.11–95R
Netherlands. Rijkswaterstaat, 21.11–95R
Noyan, K., 21.11–95R
Oklahoma. Water Resources Board, 21.4–307
Page, L. M., 21.2–273
Peru. National Committee for Water for Peace Conference, 21.11–95R
Philippines. National Committee, 21.11–95R
Pliego, J. M., 21.11–95R
Potter, K. E. D., 21.11–95R
Schmidt, F., 21.11–95R
Selim, M. A., 21.11–95R
Sosa, H. C., 21.11–95R
Thailand. Delegation to the Water for Peace Conference, 21.11–95R
Uganda. Ministry of Mineral and Water Resources, 21.11–95R

U. S. Water Resources Council, 21.11–95R
Uruguay (Office of Planning and Budget), 21.11–95R
Viet Nam. Ministry of Public Works, 21.11–95R

Hydrometeorology in ESSA, bibliography
Paulhus, J. L. H., 21.9–137R

Hydrometeors
Kessler, E., 21.6–532

Hydrometric network, France
Dubreuil, P., 21.11–94R

Hydrophical observation
Akademiia Nauk SSSR, 21.3–739

Hydroponic cultivation
Hanah, J. J. et al., 21.10–553

Hydroscience
Advances in Hydroscience, 21.4–500

Hydrosphere
Lambor, J., 21.6–737
Nace, R. L., 21.1–549

Hydrostatic equations
Kokin, G. A., 21.5–313

Hydroxyl (OH) emissions
Hesstvedt, E., 21.7–353
Huppi, E. R. et al., 21.7–354
Shefov, N. N., 21.6–391, –392; 21.9–219
Smith, L. L., 21.1–470

Hygrograph calibration
Cotton, R. F., 21.11–96

Hygrometer testing
Sano, Y. et al., 21.5–129

Hygrometers
Reznikov, G. P., 21.9–70

Hygroscopic nuclei
Kocmond, W. C. et al., 21.7–111

Hygroscopic nuclei cloud seeding
Jiusto, J. E., 21.5–195

Hygroscopic particles
Charlson, R. J., 21.12–495

Hygrothermographs
Harrington, W., 21.6–95
Meeks, C. H., 21.1–187

Hypersonic flow
Hopkins, E. J., 21.7–732

Hypersonic trail effects
Murman, E. M., 21.8–667

Hypsometers
Lichfield, E. W., 21.5–120

I

ICSU yearbook, 1969
International Council of Scientific Unions, 21.9–118R

IGY atmospheric electricity observations
Choudhuri, R., 21.11–502
Makhotkin, L. G., 21.8–605

IGY auroral observations
Lange-Hesse, G., 21.3–117

IGY humidity studies
Starr, V. P. et al., 21.6–535

IGY night airglow observations
Brenton, J. G. et al., 21.8–244

IGY noctilucent cloud observations
Villmann, Ch. I., 21.8–589

IGY oceanographic investigations
Al'tman, E. N. et al., 21.2–706

IGY pressure data
Rudloff, W., 21.5–498

IHD program
Heindl, L. A., 21.9–116R

IQSY atmospheric electricity observations
Choudhuri, R., 21.11–502
Makhotkin, L. G., 21.8–605

IQSY auroral observations
Lange-Hesse, G., 21.3–117

IQSY bibliography
Booth, G. (comp.), 21.10–63R

IQSY conference
International Years of the Quiet Sun, 21.7–700

IQSY cosmic ray investigations
McDonald, F. B., 21.10–298

IQSY cosmic ray measurements
Carmichael, H. et al., 21.7–399
Pankratov, A. K. et al., 21.10–301

IQSY ionospheric investigations
Baggaley, W. J., 21.7–172
Thomas, J. O., 21.12–317

IQSY night airglow observations
Kariagina, Z. V. et al., 21.6–389
Roach, F. E. et al., 21.9–218
Weill, G., 21.3–524

IQSY noctilucent cloud observations
Villmann, Ch. I., 21.8–589

IQSY ozone studies
Bojkov, R. D., 21.3–361

IQSY solar activity
Dodson, H. W. et al., 21.9–523

I.U.G.G., Association of Scientific Hydrology
Yevjevich, V. M., 21.9–568

Ice, North Atlantic
U. S. Coast Guard, 21.11–64R

Ice accretion
Macklin, W. C. et al., 21.1–572

Ice accretion climatology
McKay, G. A. et al., 21.5–589

Ice age theories
Milankovitch, M., 21.4–131

Ice atlases
Rondy, D. R., 21.2–642

Ice breakers
Kempf, H. et al., 21.10–787
Murzin, A. I. et al., 21.4–614

Ice breaking techniques
Cavan, B. P., 21.11–754

Ice breakup
Prebble, M. M., 21.2–639, –640

Ice breakup forecasting
Makarevich, T. N., 21.12–662

Ice cap accumulation
Koerner, R. M., 21.12–722

Ice cap morphology
Loken, O. H., 21.10–774

Ice cap movement
Paterson, W. S. B., 21.5–777

Ice cap regime
Paterson, W. S. B., 21.5-777
Ice cap temperatures
Burdecki, F., 21.3–753
Grosval'd, M. G., 21.12–725
Ice cap topography
Seckel, H. et al., 21.10–786
Ice classifications
Grosval'd, M. G., 21.12–723
Ice cloud studies
Hansen, J. E. et al., 21.8–368
Ice clouds
Hansen, J. E. et al., 21.6–362
Ice conditions, Greenland waters
Denmark. Meteorologisk Institut, 21.9–177R; 21.11–60R
Ice cover climate
Vil'kens, A. A., 21.5–783
Ice cover formation
Cherepanov, N. V., 21.2–632
Ice crystal aggregation
Saunders, C. P. R., 21.7–628
Ice crystal analysis
Eiben, K., 21.6–803
Noll, G., 21.6–811
Ice crystal fall
Podzimek, J., 21.1–562
Ice crystal formation
Kazankova, Z. P., 21.11–368
Yamashita, A., 21.7–550
Ice crystal forms
Anderson, B. J. et al., 21.1–557
Odencrantz, F. K., 21.6–615
Stetter, G., 21.12–543
Sugisaki, M. et al., 21.6–814
Ice crystal growth
Anderson, B. J. et al., 21.1–557
Hoffer, T. E. et al., 21.5–582
Isono, K. et al., 21.5–583
Ryan, B. F., 21.12–542
Yamashita, A., 21.7–550
Ice crystal growth in clouds
Ono, A., 21.11–369
Ice crystal growth rate
Macklin, W. C. et al., 21.6–558
Weisweiler, W., 21.3–646, –647; 21.6–566
Ice crystal impurities
Kvajić, G. et al., 21.6–809
Ice crystal nucleation
Fletcher, N. H., 21.6–556
Müller-Krumbhaar, H., 21.6–810
Ice crystal photography
Hogan, A. W., 21.12–540
Ice crystal properties
Jones, S. J. et al., 21.5–773
Müller-Krumbhaar, H., 21.6–810
Ice crystal replicas
Hogan, A. W., 21.12–540
Verschuure, J., 21.4–267
Ice crystal samplers
McTaggart-Cowan, J. D., 21.11–98
Ice crystal simulation
Van Der Hage, J. C. H., 21.4–8
Ice crystal structure
Cherepanov, N. V., 21.2–632
Müller-Krumbhaar, H., 21.6–810
Ice crystallization temperatures
Ketcham, W. M., 21.12–541
Ice crystallographic orientation
Levi, L. et al., 21.6–620
Ice crystallographic studies
Cross, J. D., 21.6–802
Verschuure, J., 21.4–267
Ice crystallography
Hobbs, P. V., 21.6–807
Odencrantz, F. K., 21.6–615
Sugisaki, M. et al., 21.6–814
Ice crystals
Takahashi, T., 21.9–325
Ice crystals in clouds
Berson, F. A., 21.12–395
Koenig, L. R., 21.5–584
McTaggart-Cowan, J. D., 21.11–98
Mossop, S. C., 21.12–505
Ice crystals in fog
Ohtake, T., 21.12–523
Ice crystals in Mars atmosphere
Davydov, V. D., 21.11–578
Ice crystals in supercooled water
Macklin, W. C. et al., 21.6–558
Ice data
Bilello, M. A. et al., 21.7–827
Ice data, Arctic
U. S. Naval Oceanographic Office, 21.9–185R
Ice data, Canadian Arctic
Canada. Meteorological Branch, 21.9–182R, –184R
Ice data, Eastern Canada
Canada. Meteorological Branch, 21.9–171R
Ice data, Hudson Bay
Canada. Meteorological Branch, 21.9–183R
Ice data, North Atlantic
U. S. Coast Guard, 21.9–181R
Ice data, Okhotsk Sea
Hakodate, Japan. Marine Observatory, 21.9–191R
Ice distintegration
Kornilov, N. A., 21.6–822
Ice drift
ESSA World [Rockville, Md.], 21.6–820
Vinje, T. E., 21.12–728
Ice drift determination
Ingram, R. G. et al., 21.7–825
Ice drift forecasting
Zhmurko, V. Ia., 21.9–98R
Ice drift measurement techniques
Zhmurko, V. Ia., 21.9–98R
Ice drift theories
Ingram, R. G. et al., 21.7–825
Ice drift trajectories
Gudkovich, Z. M., 21.9–40R
Ice drillings
Grosval'd, M. G., 21.12–725

Ice effects
  Rooney, J., 21.1–623
Ice effects on beaches
  Owens, E. H., 21.10–773
Ice field thermal deformation coefficient
  Legen'kov, A. P., 21.12–731
Ice fog
  Ohtake, T., 21.11–509; 21.12–523
  Wendler, G., 21.5–382
Ice fog crystals
  Kumai, M. et al., 21.2–253
Ice fog formation
  Kumai, M., 21.3–650
  Porteous, A., 21.11–377
Ice fog infrared radiation
  Kumai, M. et al., 21.2–253
Ice fog research
  Weller, G. E., 21.5–592
Ice forecasting
  Kempf, H. et al., 21.10–787
Ice-free period on river regulation relationships
  Ginzburg, B. M., 21.12–733
Ice growth physics
  Hobbs, P. V., 21.6–807
  Kvajić, G. et al., 21.6–809
Ice jam studies
  Laucht, H., 21.4–624
Ice layer growth
  Koerner, R. M., 21.12–722
Ice melt
  Cherkasev, P. A. et al., 21.2–626
Ice melting
  Kuziemski, J., 21.5–480
Ice nucleability
  Ershova, N. G., 21.6–156
  Finnegan, W. G. et al., 21.5–578
  Gabarashvili, T. G., 21.12–497
  Gokhale, N. R. et al., 21.7–544
  Hallett, J., 21.4–263
  Hoffer, T. E., 21.5–574
  Mayoral, J. R., 21.12–180
  Roberts, P. et al., 21.1–563
Ice nucleating measurements
  Hallett, J., 21.4–263
Ice nucleating properties of silver iodide
  Berg, T. G. O., 21.12–188
  Vonnegut B., 21.5–576
Ice nucleation
  Edwards, G. R. et al., 21.7–543
  Fukuta, N., 21.5–572
Ice nuclei activity
  Burkardt, L. A., 21.11–370
Ice nuclei activity spectra
  Burkardt, L. A., 21.11–370
Ice nuclei concentration
  Bertrand, J., 21.5–577
  Gagin, A., 21.12–513
  Howell, W. E., 21.9–75
  Kapoor, R. K. et al., 21.9–285
  Schaefer, V. J., 21.5–581
Ice nuclei concentration measurements
  Hobbs, P. V. et al., 21.6–570
  Khimach, M. A., 21.12–515
  Takahashi, Y., 21.12–114
Ice nuclei counters
  Allee, P. A., 21.12–509
  Gagin, A. et al., 21.7–60
  Howell, W. E., 21.1–204; 21.9–75
Ice nuclei formation
  Langer, G., 21.12–501
Ice nuclei forms
  Higuchi, K., 21.12–514
Ice nuclei in cap clouds
  Auer, A. H., Jr., 21.10–89R
Ice nuclei in upper atmosphere
  Gokhale, N. R. et al., 21.7–544
  Higuchi, K., 21.12–514
Ice nuclei sources
  Gagin, A., 21.12–513
  Hobbs, P. V. et al., 21.7–552
  Kapoor, R. K. et al., 21.9–285
  Schaefer, V. J., 21.5–581
Ice nuclei sources evaluation
  Steele, R. L., 21.11–141
Ice nuclei transport
  Cermak, J. E., 21.12–189
  Gagin, A., 21.12–513
  Robertson, C. E., 21.5–208
Ice particle growth
  Burrows, D. A. et al., 21.5–596
Ice particles in clouds
  Burrows, D. A. et al., 21.5–596
Ice physics
  Granicher, H., 21.8–801
  Haefeli, R., 21.6–800
  Lock, G. S. H., 21.3–746
  Mogensen, O., 21.8–803
  Siksna, R., 21.8–602
Ice physics conferences
  International Symposium on Physics of Ice, 21.7–820
Ice physics textbooks
  Fletcher, N. H., 21.10–771
Ice prevention
  Rosenberg, H. B., 21.11–756
Ice properties
  Fletcher, N. H., 21.10–771
  Glen, J. W., 21.6–804
  Pick, M. A., 21.6–812
Ice regelation
  Hahne, E., 21.6–805
Ice regime studies
  Toporkov, L. G., 21.5–775
Ice season of Great Lakes
  U. S. Weather Bureau, 21.7–821
Ice sheet accumulation
  Schwerdtfeger, W., 21.4–611
Ice sheet motion
  Drouin, M., 21.11–309
Ice sheet temperatures
  Freifel'd, V. Ia., 21.11–742
Ice sheet topography
  Stober, M., 21.11–745
Ice shelves
  Grosval'd, M. G., 21.12–723
Ice storms
  McKay, G. A. et al., 21.5–589
  Prokhorenko, M. M. et al., 21.10–368
Ice storms frequency
  Prokhorenko, M. M. et al., 21.10–368
Ice–streamflow effects
  Cook, R. E. et al., 21.10–748
Ice strength
  Rothlisberger, H., 21.3–747
Ice structure
  Hamilton, W. C., 21.6–806

Rabideau, S. W. et al., 21.6–813
Whalley, E., 21.8–804
Ice temperature variations
Bryan, R., 21.2–620
Ice temperatures
Malevskiĭ-Malevich, S. P., 21.6–58
Ice terminology
Grosval'd, M. G., 21.12–723
Ice thermoelectricity
Jaccard, C., 21.6–808
Ice thickness measurements
Bilello, M. A. et al., 21.7–827
Ice warning services
Kraus, H. et al., 21.6–571
Ice–water surface structure
Fletcher, N. H., 21.2–530
Ice–water systems
Lock, G. S. H., 21.3–746
Iceberg calving
Holdsworth, G., 21.5–780
Iceberg drifting
Swithinbank, C., 21.2–634
Iceberg forecasting
Khrol, V. P., 21.9–668
Icefield Ranges Research Project
Icefield Ranges Research Project, 21.9–381
Wood, W. A., 21.9–382
Icelandic low–anomalous behavior
Rodewald, M., 21.11–261
Icing conditions
Zuev, V. M., 21.2–641
Icing forecasting
Great Britain. Hydrographic Dept., 21.8–358
Icing of aircraft
Koshenko, A. M. et al., 21.9–289
Weiss, I., 21.6–574
Icing of aircraft, forecasting
U. S. Air Weather Service, 21.9–105R
Icing of cables
Ishchenko, V. N., 21.2–251
Icing of roads
Kraus, H. et al., 21.6–571
Icing of ships
Berenbeim, D. Ia., 21.5–587
Great Britain. Hydrographic Dept., 21.8–358
Rubin, E. H., 21.6–572
Sachse, K., 21.2–252
Shekhtman, A. N., 21.1–573
Icing of transmission lines
Belous, I. M., 21.5–586
Shver, Ts. A., 21.7–558
Stanev, Sv., 21.5–590; 21.7–559
Timofeev, N. T., 21.5–591
Incoherent radio wave scattering
Farley, D. T., 21.4–76
Indian monsoon
De la Mothe, P. D. et al., 21.7–492
Indium in rainwater determination
Bhatki, K. S., 21.11–389
Indium in seawater
Baric, A. et al., 21.9–706
Indoor climate control
Leidreiter, W., 21.7–682
Indoor climates
Auliciems, A., 21.7–688
Indoor climatology
Anapol'skaia, L. E. et al., 21.6–422
Indoor temperatures
Lukina, F. Z., 21.5–670; 21.6–430
Industrial aerosols
Hobbs, P. V. et al., 21.6–569
Industrial atmospheric pollution
American Institute of Chemical Engineers, 21.9–120
Bespalov, A. I. et al., 21.1–284; 21.9–122
Bourbon, P. et al., 21.3–331
Dubrovskaia, F. I. et al., 21.1–291
Francois, R. Ch. et al., 21.5–247
Kaliuzhnyi, D. N. et al., 21.5–262
Kicłyo, K., 21.7–145
Morik, J., 21.6–489
Russell, W. E., 21.12–256
Snitkovskaia, T. M. et al., 21.1–307
Tait, G. W. C., 21.4–208
Takhirov, M. T., 21.1–308
Industrial meteorology
U. S. Weather Bureau, 21.3–32
Industrial plant effects on precipitation
Ogden, T. L., 21.7–620
Industrial pollution
Vengerskaia, Kh. Ia. et al., 21.5–301
Industrial water supply
Jensen, L. T., 21.4–402
Inertia oscillations
Feussner, K., 21.6–265
Pandolfo, J. P., 21.4–702
Webster, F., 21.4–780
Infiltration
Hanks, R. J. et al., 21.6–752
Kirkby, M. J., 21.1–771
Peck, A. J., 21.11–440
Picandet, P. E., 21.6–754
Qashu, H. K., 21.5–656
Infiltration and surface retention
El Boushi, I. M. et al., 21.10–730
Hickok, R. B. et al., 21.9–602
Infiltration calculations
Bouwer, H., 21.8–482
Williams, R. E. et al., 21.4–566
Infiltration capacity of soils
Fukushima, A., 21.11–435
Infiltration experiments
Ben Harrath, A. et al., 21.1–648
Infiltration rate measurements
Galushchenko, N. G., 21.12–555
Infiltration rates
Lyford, F. P., 21.7–655
Mannering, J. V., 21.8–491
Whisler, F. D. et al., 21.10–697
Influence functions
La Valle, L., 21.3–415
Information indexing
Rigby, M., 21.8–773
Information retrieval
Rigby, M., 21.8–773
Sereda, G. A., 21.12–22

Information systems for space research
  U. S. National Aeronautics and Space Administration, 21.8–668
Infrared absorption
  Herr, K. C. et al., 21.10–614
  Kozyrev, B. P. et al., 21.4–144
Infrared absorption of carbon dioxide
  Moskalenko, N. I. et al., 21.7–339
  Reichle, H. G., Jr., 21.2–123
Infrared absorption of water vapor
  Moskalenko, N. I. et al., 21.7–339
Infrared absorption spectrum
  Hoidale, G. B. et al., 21.4–143
Infrared astronomy
  Brancazio, P. J., 21.1–24
  Peebles, P. J. E., 21.7–740
  Webbink, R. F. et al., 21.7–739
Infrared cloud radiance
  Kattawar, G. W. et al., 21.3–509
Infrared emission measurements
  Girard, A., 21.12–426
  Idso, S. B. et al., 21.8–240
Infrared hygrometer
  Elagina, L. G. et al., 21.10–20
Infrared lunar radiation
  Harrison, J. K., 21.9–488
Infrared measurements
  Colacino, M. et al., 21.10–316
Infrared radiation
  Kozyrev, B. P. et al., 21.10–272
  Krishna Swamy, K. S., 21.10–578
Infrared radiation analysis
  Hubert, L. F. et al., 21.3–462
Infrared radiation calculations
  Kostianoi, G. N. et al., 21.6–371
Infrared radiation cloud analysis
  Dziubenko, E. V. et al., 21.3–202
Infrared radiation cooling
  Cox, S. K., 21.7–345
Infrared radiation data, satellite
  Goverdovskiĭ, V. F., 21.11–8R
  Guseva, L. N., 21.11–11R
  Vimberg, G. P., 21.11–32R, –33R
Infrared radiation flux
  Johnson, F. G., 21.7–336
  Kostianoi, G. N. et al., 21.6–371
  Witte, H. J., 21.1–453
Infrared radiation from ice
  Bezverkhniĭ, Sh. A., 21.12–413
Infrared radiation measurement techniques
  Giorgi, M. et al., 21.2–7
Infrared radiation measurements
  Faraponova, G. P. et al., 21.3–515
  Shekhter, F. N., 21.3–64
Infrared radiation thermometers
  Colacino, M., 21.8–54
Infrared radiation transmission
  Filippov, V. L. et al., 21.7–332
  Peterson, J. T. et al., 21.8–144
Infrared radiative cooling
  Bullock, B. R. et al., 21.1–535
Infrared radiometer
  Chase, S. C., Jr., 21.5–106
Infrared radiometer measurements
  Neugebauer, G., 21.8–748
Infrared radiometers
  Kostianoĭ, G. N., 21.7–47
  Platt, C. M. R., 21.5–109
Infrared radiometry
  Godson, W. L., 21.6–347
  Kaplan, L. D., 21.9–24
Infrared reflectivity of ice
  Bezverkhniĭ, Sh. A., 21.12–413
Infrared reflectivity studies
  Hansen, J. E. et al., 21.8–368
Infrared scattering
  Eddy, J. A. et al., 21.3–510
Infrared solar spectra
  Montgomery, E. F., 21.12–647
  Murcray, D. G. et al., 21.10–666
Infrared spectra of Jupiter
  Johnson, H. L., 21.10–629
Infrared spectra of Saturn
  Johnson, H. L., 21.10–62
Infrared spectral radiance
  Rogers, J. F., 21.7–333
Infrared spectrophotometer
  Ashcheulov, S. V., 21.10–4R
Infrared spectroscopy
  Kondrat'ev, K. Ia., 21.3–566
Infrared spectrum of dayglow
  Dalgarno, A., 21.7–329
Infrared spectrum of ice
  Whalley, E., 21.6–815
Infrared spectrum of night airglow
  Dalgarno, A., 21.7–329
Infrared techniques
  Astheimer, R. W., 21.8–331
  Godson, W. L., 21.6–347
Infrared thermometry
  Vergez, M., 21.7–24
Infrared transmission
  Filippov, V. L. et al., 21.7–334
  Murcray, D. G. et al., 21.10–665
  Tannhauser, I. O., 21.4–149
Infrared transmission function
  Moskalenko, N. I., 21.7–340
Infrared transmission through clouds
  Yamamoto, G., 21.7–572
Infrasonic noise
  Kaschak, G. R., 21.2–390
Infrasonic pressure waves
  Bowman, H. S., 21.4–386
  Cook, R. K., 21.4–387

Infrasonic wave propagation
Cook, R. K., 21.10–549
Meecham, W. C., 21.8–661
Inland navigation
Hight, W. D., 21.1–128
Inner Van Allen belt
Heckman, H. H., 21.11–293
Lavine, J. P. et al., 21.8–284
Savenko, I. A. et al., 21.8–294
Insect migrations
Rainey, R. C., 21.1–74
Insolation–sky cover relationship
Bennett, I., 21.2–118
Instability
Fichtl, G. H., 21.8–215
Instability criteria
Agee, E. M., 21.5–368
Wilhelmsson, H., 21.10–218
Instability effects
Faller, A. J., 21.7–473
Instruction for observers
Argentina. Servicio de Hidrografía Naval, 21.8–18
Crawford, A. B., 21.12–26
Nezdiurov, D. F., 21.12–27
Instrument calibration
Pokrovskaia, I. A., 21.10–38R
Instrument catalogs
Middleton, W. E. K., 21.4–21
Instrument development
Carten, A. S., Jr., 21.10–133
Instrument errors
Grushin, S. I., 21.8–15
Karpusha, V. E., 21.9–60
Kreith, F., 21.10–57
Instrument exposure
Horn, J. D., 21.1–179
Instrument failure
Afinogenov, L. P., 21.10–83
Instrument recovery
Brearley, M. N., 21.1–164
Instrument tests
Fateev, N. P., 21.8–70
Integrating devices
Hill, R. H., 21.5–104
Integrating radiation devices
Wilska, M. G., 21.6–75
Integration techniques
Hsin, K. T. et al., 21.4–238
Lindzen, R. S. et al., 21.7–235
Robert, A., 21.3–341
Interdiurnal pressure variations
Karapiperis, L. N., 21.2–217
Landsberg, H. E., 21.2–184
Interdiurnal temperature variations
Landsberg, H. E., 21.2–184
Interferometer measurements
Gubbay, J. et al., 21.4–463
Interferometers
Hanel, R. et al., 21.8–241
Interhemispheric circulation
Findlater, J., 21.1–379
Fujita, T. T., 21.3–485
Interhemispheric exchange tracing
Findlater, J., 21.1–379
Newell, R. E. et al., 21.10–235
Interhemispheric fallout
Sotobayashi, T. et al., 21.6–261
Interhemispheric fallout mixing
Rangarajan, C., 21.12–349
Interhemispheric mass circulation
Newell, R. E. et al., 21.10–235
Interhemispheric radioactive fallout
Pierson, D. H., 21.12–348
Internal atmospheric turbulence
Panofsky, H. A., 21.2–223
Internal Gravity and Acoustic Waves Colloquium
Colloquium on Internal Gravity and Acoustic Waves, 21.6–274
Internal gravity waves
Bretherton, F. P., 21.6–263; 21.10–221
Hooke, W. H., 21.7–188
Reddy, C. A., 21.7–229, –241
Internal sea waves
Frankignoul, C., 21.4–775
Gololobov, Ia. K., 21.4–777
Mugica, R., 21.9–748
Sabinin, K. D., 21.4–773
Tomczak, M., Jr., 21.11–784
Zalkan, R. L., 21.4–779
Ziegenbein, J., 21.9–749
Internal tidal waves
Zalkan, R. L., 21.4–772
Internal wave diffraction
Voit, S. S. et al., 21.2–786
Internal wave observations
Halpern, D., 21.4–778
Larsen, L. H. et al., 21.4–771
Internal wave propagation
Hall, J. M., 21.12–807
Johns, B. et al., 21.1–753
Larsen, L. H. et al., 21.4–771; 21.12–808
Robinson, R. M., 21.12–810
Zalkan, R. L., 21.4–779
Internal wave spectra
Hall, J. M., 21.12–807
Krauss, W., 21.11–785
Pao, Y.-H., 21.11–229
Internal wave theories
Polianskaia, V. A., 21.12–809
Weigand, J. G. et al., 21.4–776
Internal waves
Afashagov, M. S., 21.3–420
Jones, W. L., 21.5–373
Tomczak, M., Jr., 21.4–774
International Atomic Energy Agency and hydrology
International Atomic Energy Agency, 21.6–736
International Commission for Protection of Rhine River against Pollution
Berg, J., 21.6–784
International cooperation in meteorology
World Meteorological Organization, WMO Bulletin, 21.1–85, –92
International Glaciological Expedition to Greenland 1957–1960
Haefeli, R., 21.6–800

International Hydrological Decade
- Da Costa, J. A., 21.9–569
- Kasser, P., 21.2–625
- *World Meteorological Organization, WMO Bulletin* 17, 21.1–642

International Ice Patrol
- U. S. Coast Guard, 21.8–811

International Ice Patrol Service
- U. S. Coast Guard, 21.3–750

International Indian Ocean Expeditions, 1959–1965
- Nicholson, J. R., 21.7–36

International Institute of Land Reclamation and Improvement
- International Institute of Land Reclamation and Improvement, Wageningen, Netherlands, 21.9–119R

International Meteorological Institute, Stockholm
- International Meteorological Institute, Stockholm, 21.8–4

International Meteorological Organization
- Bottari, D., 21.3–7

International meteorological programs
- Frey, I. R., 21.3–270

International oceanographic exhibitions
- *Hydrospace* [London], 21.1–716

International oceanographic tables
- Wooster, W. S. et al., 21.4–673

International Skagerrak Expedition, 1966
- Tomczak, G., 21.1–724

International Weddell Sea Oceanographic Expedition, 1969
- Capurro, L. R. A., 21.4–642
- Hufford, G. L. et al., 21.4–644

Interplanetary charged particles
- Iukhimuk, A. K. et al., 21.4–489

Interplanetary dust
- Kaiser, T. R., 21.4–435

Interplanetary dust investigations
- Elsässer, H., 21.2–416
- Heiles, C., 21.4–434
- Norton, R. H., 21.6–728

Interplanetary dust measurements
- Bandermann, L. W., 21.6–691
- Roosen, R. G. et al., 21.7–744

Interplanetary dust motion
- Reay, N. K., 21.10–642

Interplanetary dust near the Earth
- Nazarova, T. N., 21.12–616

Interplanetary electric field effects
- Lanzerotti, L. J., 21.12–624

Interplanetary electric field–geomagnetic relationships
- Mikerina, N. V., 21.8–714

Interplanetary magnetic field
- Burlaga, L. F., 21.2–411
- Dolginov, Sh. Sh., 21.11–549
- Dorman, L. I. et al., 21.10–294
- Hirshberg, J., 21.5–725
- Krivoshapkin, P. A. et al., 21.3–538
- Lotova, N. A., 21.3–713
- Miroshnichenko, L. I., 21.3–540
- Rosenberg, R. L. et al., 21.4–431
- Sari, J. W., 21.4–432
- Shishov, V. I., 21.3–542
- Wilcox, J. M., 21.2–414

Interplanetary magnetic field effects
- Ballif, J. R. et al., 21.3–712
- Dorman, L. I. et al., 21.2–163; 21.3–535
- Dungey, J. W., 21.11–531
- Hargreaves, J. K., 21.10–510
- Schwartz, K. et al., 21.10–604

Interplanetary magnetic field–geomagnetic activity relationships
- Bol’shakova, O. V. et al., 21.7–742
- Mansurov, S. M., 21.8–715

Interplanetary magnetic field measurements
- Ness, N. F., 21.10–286

Interplanetary media
- Gifalevich, E. Ia. et al., 21.2–415

Interplanetary media investigations
- Lanzerotti, L. J., 21.2–166

Interplanetary medium effects on cosmic rays
- Lanzerotti, L. J., 21.2–166

Interplanetary medium investigations
- *Die Umschau* [Frankfurt a.M.], 21.5–94
- Vsekhsviatskiĭ, S. K., 21.5–713

Interplanetary plasma
- Ivanov, K. G., 21.7–370
- Ness, N. F., 21.10–286

Interplanetary scintillation
- Burnell, J., 21.4–465

Interplanetary shock waves
- Korobeinikov, V. P., 21.2–485; 21.12–623

Interplanetary space
- Fracassini, M. et al., 21.2–452

Interpolation errors
- Kagan, R. L., 21.2–221
- Kowalczyk, S., 21.7–17
- Petrov, A. A., 21.6–17

Interpolation methods
- Fritsch, J. M., 21.6–19
- Kelway, P. S. et al., 21.3–658
- Miroslav, S., 21.7–81

Interpolation of meteorological data
- Fritsch, J. M., 21.6–19

Interstellar electron temperatures
- Mansfield, V., 21.2–410

Interstellar gas
- Fujimoto, M., 21.11–563

Interstellar hydrogen–atmospheric hydrogen relationships
Fahr, H. J., 21.9–118
Interstellar space radiations
Krishna Swamy, K. S., 21.10–578
Intertropical convergence zone
Charney, J. G., 21.4–90
Hubert, L. F. et al., 21.1–381
Janota, P., 21.6–294
Miller, F., 21.4–3
O'Connor, N. F., 21.6–299
Sukanto, M., 21.8–510
Yoshino, M. M., 21.6–303
Intertropical convergence zone–cyclone relationships
O'Connor, N. F., 21.6–299
Inversion–atmospheric pollution effects
Peterson, C. M. et al., 21.5–279
Inversion–convective motion relationships
Andreev, V. M., 21.8–340; 21.10–346
Inversion duration
Baker, D. G. et al., 21.4–169
Inversion effects on atmospheric pollution
Bezuglaia, E. Iu., 21.9–12R
Reidat, R., 21.2–197
Inversion effects on clouds
Lilly, D. K., 21.1–350
Inversion intensities
Baker, D. G. et al., 21.4–169
Inversion–oxidant relationships
Miller, A. et al., 21.4–39
Io decametric bursts
Goldreich, P., 21.2–430
Io effects on Jovian radiation
Goldreich, P., 21.2–430
Piddington, J. H., 21.2–431
Iodine-131 dosage
Van Middlesworth, L., 21.3–402
Iodine-131 fallout
Bryant, P. M., 21.3–399
Iodine content of air
Pasławska, S. et al., 21.7–133
Iodine in sea water
Revel, J., 21.2–720
Ion-acoustic waves
Hofstee, J. et al., 21.9–451
Ion–aerosol combination
Hoppel, W. A., 21.8–608
Kawano, M. et al., 21.9–434
Liu, B. Y. H. et al., 21.9–435
Ion composition models
Bhatnagar, V. P., 21.3–347
Ion concentration measurements
Kostko, O. K., 21.5–316
Ion density distribution
Wang, K., 21.8–610
Ion formation
Franklin, J. L., 21.2–354
Ion mobility
Bricard, J. et al., 21.9–430
Huertas, M. L., 21.12–585
Ion mobility measurement techniques
Bricard, J. et al., 21.9–430
Ion mobility spectrum
Misaki, M. et al., 21.9–431
Ion molecule reactions
Tiernan, T. O. et al., 21.3–356
Ion momentum transfer
Holzer, T. E. et al., 21.3–693
Ion production
Baretto, E., 21.9–427
Ion production processes
Ali, D. E., 21.4–380
Ion properties
Mohnen, V., 21.9–428
Ion recombination
Hoppel, W. A., 21.8–608
Ion temperatures
Sanatani, S. et al., 21.7–213
Ionization effects on condensation nuclei formation
Vohra, K. G. et al., 21.9–287
Ionization of air
Deleanu, M., 21.4–382
Ionization processes
Franklin, J. L., 21.2–354
Redhead, P. A., 21.8–609
Ionized gas flow
Closs, R. L., 21.12–293
Ionizing radiation effects
Billard, F., 21.12–511
Ionogram analysis
Colin, L. et al., 21.10–159
Hagg, E. L. et al., 21.10–167
Jackson, J. E., 21.10–169
Mal'tseva, O. A., 21.11–201
Matuura, N., 21.11–202
Ramasastry, J. et al., 21.6–238
Sharadze, Z. S., 21.8–199
Ionogram interpretation
Shul'gina, N. V., 21.10–190
Ionographic gravity waves
Grigor'ev, G. I. et al., 21.10–166
Ionosonder
Zelenkova, I. A. et al., 21.1–210
Ionosondes
Whitehead, J. D., 21.10–198
Ionosphere
Kazantsev, A. N. et al., 21.3–154
Preddey, G. F., 21.3–159
Ionosphere absorption of cosmic noise
Kochenova, N. A., 21.11–194
Ionosphere chemistry
Danilov, A. D., 21.10–12R
Ionosphere–cosmic ray effects
Velinov, P., 21.11–213
Ionosphere layers
Dachs, J., 21.3–518
Ionosphere–solar X-ray effects
Meisel, D. D., 21.6–410
Ionosphere–sunspot relationships
Sterling, D. L. et al., 21.7–204
Ionosphere vertical motion
MacLeod, M. A., 21.11–200
Ionosphere–wind effects
Chimonas, G., 21.11–180
Ionospheric absorption
Beynon, W. J. G. et al., 21.3–371
Rawer, K., 21.8–197

Reid, G. C. et al., 21.5–353

Ionospheric absorption anomalies
Wilson, C. R., 21.10–525

Ionospheric absorption calculation
Bain, W. F. et al., 21.8–160
Ryss, I. K., 21.11–208

Ionospheric absorption measurement techniques
Belikovich, V. V. et al., 21.8–163

Ionospheric absorption measurements
Cumme, G. A. et al., 21.10–161
Jelly, D. H., 21.6–680
Zelenkova, I. A. et al., 21.1–210

Ionospheric absorption of cosmic noise
Belikovich, V. V. et al., 21.8–162, –163

Ionospheric absorption variations
Driatskiĭ, V. M., 21.12–295
Kotadia, K. M. et al., 21.1–671
Rai, R. K., 21.9–177, –178
Rastogi, R. G., 21.2–77

Ionospheric acoustic gravity waves
Friedman, J. P. et al., 21.8–659
Kato, S. et al., 21.5–349

Ionospheric acoustic wave propagation
Broche, B., 21.6–222

Ionospheric aerodynamics
Gurevich, A. V., 21.11–187

Ionospheric backscatter
Baggaley, W. J., 21.7–172
Bates, H. F. et al., 21.7–174
Ward, J. F., 21.4–750

Ionospheric chemistry
Bowhill, S. A., 21.1–669
Burke, R. R., 21.9–151
Fehsenfeld, F. C. et al., 21.9–161
Goncharov, L. P., 21.12–299
Kutiev, I. et al., 21.11–198
Stubbe, P., 21.3–380

Ionospheric collisional frequencies
Wand, R. H., 21.6–244
Zelenkova, I. A. et al., 21.1–210

Ionospheric composition
Brinton, H. C. et al., 21.11–175
Evans, J. V. et al., 21.7–180
Ivanov-Kholodnyi, G. S. et al., 21.4–64
Johnson, C. Y., 21.6–231
Keneshea, T. J. et al., 21.7–192
Rao, B. C., 21.1–673
Taieb, C., 21.10–195

Ionospheric composition measurements
Miller, E. K., 21.12–305

Ionospheric conferences
Seminar on the Cause and Structure of Temperate Latitude Sporadic-E, 2nd, Vail, Colo., June 19–22, 1960, 21.1–33

Ionospheric corpuscular radiation
Tulinov, V. F. et al., 21.6–421

Ionospheric corpuscular radiation effects
Velinov, P., 21.8–207

Ionospheric cosmic noise absorption
Yuan, F. F. F. et al., 21.8–303

Ionospheric current systems
Closs, R. L., 21.12–293
Stening, R. J., 21.3–376
Sugiura, M. et al., 21.11–211

Ionospheric currents
Fukushima, N., 21.7–718; 21.11–507
Matsushita, S., 21.8–188
Wescott, E. M. et al., 21.8–613

Ionospheric currents–aurora relationships
Block, L. P. et al., 21.6–220
Bostrom, R., 21.8–166

Ionospheric currents–geomagnetic disturbance relationships
Bostrom, R., 21.8–166
Ivanov, K. G. et al., 21.8–277

Ionospheric currents–geomagnetic storm relationships
Bonnevier, B. et al., 21.8–611

Ionospheric currents–geomagnetic variations
Price, A. T., 21.1–682

Ionospheric data
Australia. Weapons Research Establishment, Salisbury, 21.2–14
Kodaikanal, India. Observatory, 21.11–195
Stone, R. G. et al., 21.3–378
Tortosa, Spain. Observatorio del Ebro, 21.8–206

Ionospheric data, Antarctic
Expédition Antarctique Belgo–Néerlandaise, 1965, 21.10–108R

Ionospheric data analysis
Patterson, T. N. L., 21.8–195

Ionospheric diffusion
Nakamura, J. et al., 21.8–194

Ionospheric disturbance detection
Jean, A. G. et al., 21.2–74

Ionospheric disturbance–geomagnetic storm relationships
Davis, M. J. et al., 21.8–171

Ionospheric disturbance movement
Sharadze, Z. S., 21.8–199

Ionospheric disturbance theories
Chimonas, G., 21.7–178; 21.9–152; 21.11–180
Flock, W. L. et al., 21.9–162
Georges, T. M., 21.9–167
Grigor'ev, G. I. et al., 21.10–166

Ionospheric disturbances
Baker, D. M. et al., 21.5–337; 21.7–173
Cherkas, V. I., 21.5–341
Erokhin, Iu. G. et al., 21.9–158
Gershman, B. N. et al., 21.8–176
Greene, J. S., Jr. et al., 21.5–348
Kato, S. et al., 21.5–349
Mitiakova, E. E., 21.8–192
Rao, B. R., 21.12–309
Schwitters, M. T., 21.10–187
Sharadze, Z. S., 21.9–180
Surtees, W. J., 21.9–183
Wickersham, A. F., Jr., 21.10–200

Ionospheric disturbances–thunderstorm relationships
Georges, T. M., 21.9–167

Ionospheric drift
Rao, B. R., 21.12–309
Rawer, K., 21.8–197
Warren, E. S., 21.10–196

Ionospheric drift–geomagnetic activity relationships
Rao, G. L., 21.7–199

Ionospheric drift measurements
Armstrong, R. J. et al., 21.6–217
Briggs, B. H., 21.11–173, –174
Haug, A., 21.11–188
Sprenger, K. et al., 21.7–203
Zakharov, V. N., 21.12–313

Ionospheric drifts
Abur-Robb, M. F. K., 21.3–368

Ionospheric ducts
Muldrew, D. B. et al., 21.10–176

Ionospheric dynamics
International Symposium on Rarefied Gas Dynamics, 5th, Univ. of Oxford, 21.1–27

Ionospheric effects
Matuura, N., 21.8–189

Ionospheric effects on cosmic noise
Danilin, V. A., 21.12–294

Ionospheric effects on satellite radio waves
Muldrew, D. B. et al., 21.10–176

Ionospheric effects on satellite signals
Cherkas, V. I. et al., 21.7–177
Ebel, A., 21.11–183
Misiura, V. A. et al., 21.7–196
Shkol'nikov, V. A., 21.1–675
Titheridge, J. E., 21.7–205
Vas'kov, V. V., 21.7–207

Ionospheric electric field effects
Bramley, E. N., 21.8–167

Ionospheric electric field measurement
Aggson, T. L., 21.8–597
Haerendel, G. et al., 21.7–185; 21.8–179
Mozer, F. S., 21.6–121

Ionospheric electric fields
Matsushita, S., 21.8–188
Mozer, F. S. et al., 21.4–385
Pogrebnoĭ, V. N. et al., 21.5–352
Potter, W. E. et al., 21.8–196

Ionospheric electron concentration
Misiura, V. A. et al., 21.7–196

Ionospheric electron content
Titheridge, J. E. et al., 21.8–203

Ionospheric electron content measurements
Bratteng, O. M. et al., 21.1–330

Ionospheric electron densities
Burkard, O. M., 21.11–176
Grachev, A. I. et al., 21.7–184
Jackson, J. E., 21.10–168
Rajaram, G., 21.11–204
Rama Rao, C. et al., 21.10–182

Ionospheric electron density
Al'pert, Ia. L. et al., 21.1–668; 21,4–60
Bain, W. C., 21.2–64
Breus, T. K., 21.2–66
Dieminger, W. et al., 21.4–62
Mitiakova, E. E. et al., 21.3–39

Ionospheric electron density calculations
Ebel, A., 21.11–183
Mal'tseva, O. A., 21.12–304

Ionospheric electron density determination
Jackson, J. E., 21.10–169
Smith, D. H., 21.8–201

Ionospheric electron density distribution
Arendt, P. R. et al., 21.8–159
Titheridge, J. E., 21.1–676

Ionospheric electron density measurement
Getmantsev, G. G. et al., 21.8–177

Ionospheric electron density measurement techniques
Bertel, L., 21.7–175

Ionospheric electron density measurements
Baker, K. D. et al., 21.10–95
Beer, T. I., 21.8–161
Gregory, J. B. et al., 21.2–70
Holt, O., 21.9–169
Miller, N. J. et al., 21.7–195
Oya, H., 21.6–122
Rama Rao, C. et al., 21.10–182
Reddy, C. A. et al., 21.10–184
Rubio, R., 21.2–78
Szachta, F. D., 21.2–26
Thomas, G., 21.8–204

Ionospheric electron density profiles
Gershman, B. N. et al., 21.8–175
Jacobs, K. G. et al., 21.6–230
Jusick, A. T. et al., 21.8–183
Mechtly, E. A. et al., 21.11–203

Ionospheric electron density variations
- Gregory, J. B. et al., 21.1–670
- Prakash, S., 21.10–180

Ionospheric electron temperatures
- Breus, T. K., 21.2–66
- Lane, N. F., 21.1–331
- Oya, H. et al., 21.10–177
- Rao, B. C., 21.1–673
- Waldteufel, P., 21.6–243
- Wand, R. H., 21.8–208
- Wrenn, G. L. et al., 21.7–209

Ionospheric electrons
- Carleton, N. P., 21.3–383

Ionospheric equatorial anomaly
- Rush, C. M., 21.5–354

Ionospheric F-region winds
- Challinor, R. A., 21.3–626

Ionospheric forecasting
- Joachim, M. et al., 21.8–182

Ionospheric–geomagnetic relationships
- Ben'kova, N., 21.6–219
- Ben'kova, N. P., 21.12–291
- Besprozvannaia, A. A., 21.2–65
- Boyd, G. M., 21.11–171
- Cole, K. D., 21.8–170
- Fatkullin, M. N. et al., 21.5–345; 21.8–174
- French, A. G., 21.7–182
- Grosheva, N. M., 21.12–301
- Mendillo, M. et al., 21.8-191
- Rajaram, G., 21.11–204
- Reddy, B. M., 21.11–206
- Reddy, C. A. et al., 21.10-184
- Rüster, R., 21.10–185
- Vasseur, G. et al., 21.9–186

Ionospheric gravity waves
- Blumen, W., 21.10–500
- Claerbout, J. F., 21.7–510
- Gershman, B. N. et al., 21.8–176
- Grigor'ev, G. I. et al., 21.10–166
- Hayes, W. D., 21.7–240
- Herron, T. J. et al., 21.6–226
- Hooke, W. H., 21.2–72; 21.7–188
- Klostermeyer, J., 21.9–172
- Sidi, C. et al., 21.9–182
- Vasseur, G. et al., 21.9–186
- Wickersham, A. F., Jr., 21.10–200

Ionospheric HF propagation
- Shepelavey, B., 21.6–239

Ionospheric HF propagation studies
- Bain, W. F. et al., 21.8–160
- Barghausen, A. F., 21.3–370
- Chang, N. J. F., 21.11–177
- Inston, H. H., 21.6–229

Ionospheric HF radio wave propagation
- Broche, P., 21.6–222

Ionospheric heating
- Rath, G., 21.7–200

Ionospheric height variations
- Kaufmann, P. et al., 21.5–350

Ionospheric hydromagnetic wave absorption
- Abbas, M., 21.7–171

Ionospheric hydromagnetic waves
- Kato, S. et al., 21.5–349

Ionospheric indexes
- Joachim, M. et al., 21.8–182

Ionospheric inhomogeneities
- Cherkas, V. I. et al., 21.7–177
- Erukhimov, L. M., 21.12–296
- Getmantsev, G. G. et al., 21.8–177
- Hartmann, G. K., 21.9–168
- Kokurin, Iu. L., 21.11–196
- Mitiakova, E. E., 21.8–192

Ionospheric ion density
- Prakash, S., 21.10–180

Ionospheric ion temperatures
- Wand, R. H., 21.6–244; 21.8–208

Ionospheric ionization
- Belikovich, V. V. et al., 21.8–162
- Burgess, B. et al., 21.8–168
- Johnson, C. Y., 21.6–231
- Nestorov, G., 21.1–674
- Osipov, N. K. et al., 21.3–529
- Serafimov, K., 21.11–209
- Tulinov, V. F. et al., 21.6–420; 21.7–206
- Velinov, P., 21.8–207

Ionospheric ionization calculations
- Krinberg, I. A. et al., 21.5–351

Ionospheric ionization measurements
- Dzhordzhio, N. V. et al., 21.5–344

Ionospheric ionization rate
- Swider, W., Jr., 21.12–310

Ionospheric ions–molecular interactions
- Danilov, A. D. et al., 21.4–381

Ionospheric irregularities
- Alekseeva, L. M. et al., 21.5–336
- Allen, R. S., 21.3–369
- Calvert, W., 21.10–156
- Checcacci, P. F., 21.5–340
- Chesnut, W. G., 21.10–157
- ESRIN–ESLAB Symposium, 2nd, Frascati, Italy, 1968, 21.9–159
- Elkins, T. J., 21.11–184
- Getmantsev, G. G. et al., 21.6–66
- Grebeniuk, Iu. V. et al., 21.8–178
- Liszka, L., 21.10–63
- Manson, A. H. et al., 21.6–235
- Perona, G., 21.10–587
- Preddey, G. F., 21.3–160
- Titheridge, J. E., 21.7–205
- Troitskiĭ, B. V., 21.3–381

Ionospheric joule heating
- Blumen, W., 21.10–500

Ionospheric layers
- French, A. G., 21.7–182

Ionospheric magnetic fields
- Potter, W. E. et al., 21.8–196

Ionospheric measuring equipment
- Chiplonkar, M. W. et al., 21.2–68
- Kelley, R. E., 21.11–191

Ionospheric models
- Abur-Robb, M. F. K., 21.3–368
- Beynon, W. J. G. et al., 21.3–371
- Goncharov, L. P., 21.12–298
- Keneshea, T. J. et al., 21.7–192
- Klimov, N. N. et al., 21.8–186
- Mal'tseva, O. A., 21.11–201
- Poliakov, V. M., 21.10–179
- Shchepkin, L. A., 21.4–68
- Shkol'nikov, V. A., 21.1–675

Ionospheric modification
- U. S. Library of Congress. Aerospace Technology Div., 21.5–214

Ionospheric–night airglow intensity relationships
- Dachs, J., 21.6–388
- Evans, J. V. et al., 21.8–173
- Roach, F. E., 21.7–360

Ionospheric nightglow intensities
- Peterson, V. L. et al., 21.6–237

Ionospheric nitric oxide
- Christie, A. D., 21.6–224

Ionospheric ozone
- Kutiev, I. et al., 21.11–198

Ionospheric parameters
- Patterson, T. N. L., 21.8–195
- Rodionova, V. T., 21.11–207

Ionospheric photoelectrons
- Dalgarno, A., 21.1–446
- Evans, J. V. et al., 21.8–173

Ionospheric photoionization
- Clark, I. D. et al., 21.10–158

Ionospheric physics
- Beynon, W. J. G., 21.8–164
- Risbeth, H. et al., 21.8–198

Ionospheric plasma
- Evans, J. V. et al., 21.8–173

Ionospheric probes
- Baker, K. D. et al., 21.10–95
- Liu, V. C., 21.3–215
- Miller, E. K., 21.3–375; 21.12–305
- Miyazaki, S., 21.12–123
- Sagalyn, R. C. et al., 21.6–123
- Thomas, G., 21.8–204

Ionospheric processes
- Allen, E. R., 21.10–150
- Bohme, D. K., 21.8–165
- Bowhill, S. A., 21.1–669
- Fehsenfeld, F. C. et al., 21.9–161
- Ferguson, E. E., 21.11–185
- Goncharov, L. P., 21.12–298, –299
- Herman, J. R. et al., 21.11–190
- Hirao, K. et al., 21.8–180
- Ivanov-Kholodnyĭ, G. S. et al., 21.9–171
- Klostermeyer, J., 21.9–172
- Krasovsk, V. I., 21.1–672
- Krinberg, I. A. et al., 21.5–351
- Lejeune, G. et al., 21.6–234
- Nestorov, G., 21.1–674
- Poliakov, V. M., 21.10–179
- Rath, G., 21.7–200
- Stubbe, P., 21.3–380
- Swider, W., Jr., 21.12–310
- Torr, D. G. et al., 21.6–242; 21.9–184

Ionospheric properties
- Beynon, W. J. G., 21.8–164
- Gringauz, K. I., 21.12–300
- Jelly, D. H. et al., 21.7–191

Ionospheric quenching
- Peterson, V. L. et al., 21.6–237

Ionospheric radiation
- Tulinov, V. F. et al., 21.6–420

Ionospheric radio echoes
- Davies, K. et al., 21.5–342
- Dearden, E. W., 21.6–225

Ionospheric radio noise
- Prakash, S. et al., 21.10–181

Ionospheric radio research
- Villard, O. G., Jr. et al., 21.9–187

Ionospheric radio studies
- Stephenson, J. J. et al., 21.3–377

Ionospheric radio wave absorption
- Jones, T. B. et al., 21.3–392
- Shul'gina, N. V., 21.10–190
- Tulinov, V. F. et al., 21.6–421
- U. S. Air Force. Cambridge Research Lab., Bedford, Mass., 21.2–80
- Wong, M. S., 21.4–421

Ionospheric radio wave propagation
- Bliokh, P. V. et al., 21.5–338
- Dearden, E. W., 21.6–225; 21.11–181
- Gerson, N. C. et al., 21.7–733
- Gurevich, A. V. et al., 21.8–706
- Hasegawa, S., 21.2–71
- Kaufmann, P. et al., 21.5–350
- Kuperov, L. P., 21.4–418
- Pfeffer, G. J., 21.9–176
- Schwitters, M. T., 21.10–187
- Shepelavey, B., 21.6–239
- Surtees, W. J., 21.9–183
- Whale, H. A., 21.6–245; 21.7–208

Ionospheric radio wave propagation calculations
- Smilauer, J., 21.6–240

Ionospheric radio wave reflection
- Bain, W. F. et al., 21.8–160
- Galkin, A. I. et al., 21.5–346
- Inston, H. H., 21.6–229
- Kol'tsov, V. V., 21.12–303
- Manson, A. H. et al., 21.6–235
- Shul'gina, N. V., 21.10–190
- Triskova, L., 21.1–677

Ionospheric radio wave scattering
Erukhimov, L. M., 21.12–296
Grachev, A. I. et al., 21.7–184
Grebeniuk, Iu. V. et al., 21.8–178
Vas'kov, V. V., 21.5–356; 21.7–207; 21.9–185; 21.12–312
Whale, H. A., 21.6–245
Ionospheric radio wave scintillation
Perona, G., 21.10–587
Singleton, G. D., 21.11–210
Whitney, H. E. et al., 21.9–189; 21.10–199
Ionospheric recombination
Haug, A., 21.11–189
Nestorov, G., 21.1–674
Ionospheric recombination coefficient determination
Drobzhev, V. I. et al., 21.5–343
Meyerott, R. E. et al., 21.10–515
Ionospheric reflection coefficients
Ovezgel'dyev, O., 21.12–307
Wand, I. C., 21.4–69
Ionospheric research
Hessler, V. P., 21.7–187
Rawer, K., 21.8–197
Reichert, A., 21.3–161
Thomas, L., 21.8–205
Ionospheric research reports
Seliga, T. A., 21.10–188
Waynick, A. H., 21.10–197
Ionospheric resonances
Bud'ko, N. I., 21.5–339
Chen, C. S., 21.3–273
Horita, R. E. et al., 21.6–227
Ionospheric satellite signals effects
Elkins, T. J. et al., 21.9–157
Ionospheric scintillation
Elkins, T. J., 21.11–184
Ionospheric solar influences
Alcayde, D., 21.7–348
Arendt, P. R. et al., 21.8–159
Ionospheric sounding equipment
Franklin, C. A. et al., 21.10–60
Russell, S. et al., 21.10–186
Ionospheric sounding techniques
Brace, L. H., 21.11–172
Davis, J. R. et al., 21.7–179
Donley, J. L. et al., 21.10–162
Jackson, J. E., 21.10–168
Mirkotan, S. F. et al., 21.4–66
Ionospheric soundings
Davies, K. et al., 21.5–342
Dolgova, E. I., 21.8–172
Kift, F. et al., 21.8–185
Lundbak, A. N., 21.11–199
Misiura, V. A., 21.9–175
Patterson, T. N. L., 21.8–195
Rawer, K., 21.8–197
Ionospheric stations
Checha, V. A., 21.11–178
Ionospheric storms
Rajaram, G. et al., 21.7–198
Warren, E. S., 21.10–196
Ionospheric stratification
Shchepkin, L. A., 21.4–68
Ionospheric structure
Gringauz, K. I., 21.12–300
Matuura, N. et al., 21.10–174, –175
Ionospheric studies
Miller, E. K., 21.3–375
Ionospheric symposia
ESRIN–ESLAB Symposium, 2nd, Frascati, Italy, 1968, 21.9–159
Ionospheric telecommunications
U. S. Institute for Telecommunications Sciences, 21.10–57R
Ionospheric temperature effects
Rüster, R., 21.9–179
Ionospheric temperatures
Colin, L. et al., 21.10–160
Fatkullin, M. N., 21.5–345
Hooke, W. H., 21.2–73
Klimov, N. N. et al., 21.8–186
Matuura, N. et al., 21.10–175
Miller, N. J. et al., 21.7–195
Ionospheric textbooks
Kasha, M. A., 21.10–170
Risbeth, H. et al., 21.8–198
Ionospheric tides
Kato, S. et al., 21.8–184
Taffe, W. J., 21.8–202
Ionospheric turbulence
Layzor, D. et al., 21.9–174
Ionospheric UV effects
Boyd, R. L. F., 21.6–399
Ionospheric VLF propagation
Kaufmann, P. et al., 21.6–406
Ionospheric VLF propagation studies
Burgess, B. et al., 21.8–168
Lynn, K. J. W., 21.7–194
McCormac, B. M., 21.8–190
Ionospheric vertical drift
Drobzhev, V. I. et al., 21.5–343
Ionospheric vertical movement
Dachs, J., 21.6–388
Rees, D., 21.7–201
Sidi, C. et al., 21.9–182
Wright, J. W. et al., 21.3–382
Ionospheric waves
Fedorovich, G. V., 21.12–297
Georges, T. M., 21.9–166
Hooke, W. H., 21.2–73
Khantadze, A. C., 21.11–192
Taffe, W. J., 21.8–202
Ionospheric wind effects
Challiner, R. A., 21.2–67
Gadsden, M. et al., 21.3–520
Kohl, H., 21.6–232
Mayr, H. G. et al., 21.6–236
Stening, R. J., 21.3–376
Ionospheric wind measurements
Dorling, E. B. et al., 21.3–373
Nakamura, J. et al., 21.8–194
Ionospheric wind theories
Challinor, R. A., 21.3–626

Ionospheric winds
Maeda, K. I., 21.12–280
Matsushita, S., 21.8–188
Ionospheric X-ray effects
Burgess, B. et al., 21.8–168
Ions and humidity
Siksna, R., 21.9–429
Ions in sea water
Millero, F. J., 21.2–716
Iron in lake water
McMahon, J. W., 21.10–765
Iron in natural waters
Lamar, W. L., 21.2–571
Osipova, T. I. et al., 21.5–748
Iron in photosphere
Watson, W. D., 21.11–621
Withbroe, G. L., 21.8–760
Iron lines in solar spectrum
Chevalier, R. A. et al., 21.10–672
Grevesse, N., 21.11–664
Rogerson, J. B., Jr., 21.6–717
Withbroe, G. L., 21.8–750; 21.12–652
Irrigation
Christides, O., 21.6–683
Irrigation and drainage
Maierhofer, C. R., 21.10–554
Mishari, H., 21.8–791
More, R. J., 21.1–655
Smyth, A. J. et al., 21.8–677
Irrigation and soil formation
Kostinuchenko, V. P. et al., 21.10–557
Irrigation–crops effects
Plaut, Z. et al., 21.10–437
Salter, P. J. et al., 21.9–359
Irrigation effects on crops
Bruce, R. R. et al., 21.10–423
Irrigation effects on soil moisture content
Leonov, E. A., 21.11–438
Irrigation efficiency
Bouwer, H., 21.8–482
Irrigation–groundwater effects
United Nations Development Program, 21.1–795
Irrigation norms
Gorbunova, I. G. et al., 21.6–630; 21.10–555
Irrigation problems
Bredehoeft, J. D., 21.12–682
Irrigation project
Amin, M. A., 21.11–545
Irrigation requirement forecasting
Changnon, S. A., Jr., 21.10–424
Hashemi, F. et al., 21.6–631
Mel'nik, Iu. S., 21.9–88
Irrigation requirements
Carr, M. K. V., 21.9–352
Dilkov, D., 21.7–650
Fordham, R., 21.10–361
Levenko, I. T. et al., 21.2–281
Marsh, A. W., 21.10–559
Mather, J. R., 21.2–282
Rodda, J. C., 21.12–101
Tovey, R. et al., 21.7–538; 21.8–497
Veredchenko, Iu. P., 21.8–498
Yao, A. Y. M., 21.5–570
Irrigation systems
Ateshian, K. H. et al., 21.8–678
Haise, H. R. et al., 21.8–688
Kambhu, M. L. X. et al., 21.10–556
Potter, K. E. D., 21.10–560
Irrigation–temperature effects
Galyamin, E. P., 21.4–177
Irrigation water sources
Baskachenko, I. N., 21.1–794
Clawson, M. et al., 21.6–840
Hammond, R. P., 21.8–833
Holmes, J. W. et al., 21.10–354
Liu, F. Y., 21.10–558
Murcía, A., 21.6–774
Rutulis, M., 21.9–632
Shveĭkin, Iu. V., 21.9–310
Vilentchuk, I., 21.8–838
Young, G., 21.6–841
Irrigation–weather relationships
Changnon, S. A., Jr., 21.10–424
Hashemi, F. et al., 21.6–631
Isobaric analysis
Gubanova, S. I. et al., 21.1–214
Isobaric surface heights
Phan, B. T., 21.6–476
Isobaths
New Zealand Oceanographic Institute, 21.4–694
Isostasy
Harris, S. A., 21.6–824
Isotope content of ice
Ambach, W. et al., 21.8–422
Isotope content of sea
Williams, P. M., 21.12–753
Isotopic analysis of hailstones
Bailey, I. H., 21.1–639
Isotopic composition of precipitation
Ambach, W. et al., 21.8–422
Italian satellite, San Marco
Checcacci, P. F., 21.5–340
Italian satellite, San Marco-2
Broglio, L., 21.7–126
Ivory Coast
Abramov, R. V., 21.3–1

J

Japanese Antarctic Expedition
Japan. Meteorological Agency, Tokyo, 21.4–13
Japanese Antarctic Research Expeditions, 1967–1968
Ishida, Y. et al., 21.8–305
Kaminuma, K. et al., 21.9–445
Murakoshi, N., 21.12–54
Murayama, M., 21.12–55
Torii, T., 21.3–121
Watanabe, R. et al., 21.6–829
Jet stream analysis
Ivanov, V. Kh., 21.12–485

Jet stream axis
Dziubenko, T. D. et al., 21.2–93
Jet stream climatology
Lester, P. F., 21.5–521
Jet stream dynamics
Reiter, E. R., 21.1–534
Smith, R. K., 21.5–524
Jet stream forecasting
Lipmanovich, Ia. R., 21.1–243
Jet stream formation
Reiter, E. R., 21.1–534
Jet stream–hailstorm relationships
Stanchev, K., 21.1–636
Jet stream interaction
Reiter, E. R. et al., 21.5–523
Jet stream–pressure relationships
Claerbout, J. F., 21.7–510
Madden, T. R. et al., 21.5–522
Jet stream stability
Madden, T. R. et al., 21.5–522
Jet stream structure
Lester, P. F., 21.5–521
Wilson, H. P., 21.9–269
Jet stream studies
Ivanov, V. Kh., 21.6–56
Jet stream waves
Shakina, N. P., 21.10–236
Jimsphere wind measurements
Reed, J. W., 21.1–530
Rider, L. J. et al., 21.1–522
Joint hail research project
NCAR Quarterly [Boulder, Colo.], 21.4–300
Junge distribution method
Shifrin, K. S. et al., 21.9–415
Jupiter
Rasool, I., 21.11–592
Jupiter atmosphere
Gehrels, T., 21.11–581
Gierasch, P. J., 21.6–706
Hall, J. S. et al., 21.7–758
Hogan, J. S. et al., 21.6–710
Lewis, J. S., 21.11–588
Ruskol, E. L., 21.12–609
Sorokina, L. P., 21.11–595
Stone, P. H. et al., 21.1–362
Streett, W. B., 21.6–712
Teĭfel', V. G., 21.8–750; 21.10–631, –632; 21.11–29R
Woeller, F., 21.11–598
Jupiter atmospheric absorption
Teĭfel', V. G., 21.11–596
Jupiter atmospheric chemistry
Stroebel, D. F., 21.6–713
Jupiter atmospheric circulation
Chapman, C. R., 21.6–703
Goody, R., 21.6–701; 21.11–583
Hess, S. L., 21.10–628
Ingersol, A. P. et al., 21.6–711
Jupiter atmospheric composition
Lewis, J. S., 21.10–626
McElroy, M. B., 21.5–710
Margolis, J. S. et al., 21.7–760
Moroz, V. I. et al., 21.7–761
Owen, T. et al., 21.7–762; 21.10–627; 21.11–591
Jupiter atmospheric methane
Margolis, J. S., 21.11–590
Jupiter atmospheric models
Lewis, J. S., 21.10–626; 21.11–588
Savage, B. D. et al., 21.1–688
Teĭfel', V. G., 21.11–596
Jupiter atmospheric oscillations
Aksenov, A. N., 21.11–579
Jupiter atmospheric pressure
Farmer, C. B., 21.7–757
Jupiter auroral activity
Hunter, J. H., 21.11–586
Jupiter clouds
Lewis, J. S., 21.10–626
Savage, B. D. et al., 21.1–688
Jupiter decametric radio emissions
Dulk, G. A., 21.10–585
Jupiter disk
Avramchuk, V. V., 21.12–608
Jupiter energetics
Aksenov, A. N., 21.10–623
Jupiter exploration
Kastner, S. O., 21.10–630
Jupiter Great Red Spot
Ingersoll, A. P., 21.2–449
Solberg, H. G., Jr., 21.11–593, –594
Streett, W. B., 21.6–712
Teĭfel', V. G., 21.11–597
Woeller, F., 21.11–598
Jupiter magnetosphere
Carr, T. D., 21.11–580
Lanzerotti, L. J. et al., 21.10–625
Jupiter radiation
Aumann, H. H. et al., 21.10–624
Jupiter radiation belts
Haffner, J. W., 21.11–585
Jupiter radio emission
Westphal, J. A., 21.4–462
Jupiter radio emission sources
Dulk, G. A., 21.10–585
Jupiter spectra
Danielson, R. E. et al., 21.6–704
Farmer, C. B., 21.7–757
Fink, U. et al., 21.6–705
Gille, J. C. et al., 21.6–707
Gillett, F. C., 21.11–582
Giver, L. P. et al., 21.6–708
Grigor'eva, Z. N., 21.11–584
Jenkins, E. B., 21.11–576, –587
Moroz, V. I. et al., 21.7–761
Owen, T., 21.11–591
Teĭfel', V. G., 21.7–763; 21.10–632; 21.11–597
Jupiter temperature
Westphal, J. A., 21.4–462
Jupiter upper atmosphere
Henry, R. J. W. et al., 21.6–709
Hunten, D. M., 21.7–759
Kastner, S. O., 21.10–630

K

K-band radar imagery
McCoy, R. M., 21.6–777
Kane 9
Lowrie, A. et al., 21.2–699

Kangaroo ecology
Dawson, T. J., 21.12–567
Karlov Observatory, Prague, Czechoslovakia
Dvorakova, A., 21.8–514
Karst effects on river discharges
Ivanov, B. N., 21.11–709
Karst formation
Aleksandrov, I. M., 21.11–706
Korzhenevskiĭ, B. A., 21.11–700
Karst hydrology
Aleksandrov, I. M., 21.11–706
Bocker, T., 21.11–707
Boĭko, L. I. et al., 21.11–698
Brown, M. C. et al., 21.7–795
Dublianskiĭ, V. N., 21.8–450
Eipre, T. F., 21.11–729
Falovskiĭ, A. A., 21.11–699
Fendenko, N. V., 21.11–708
Gol'din, B. M., 21.7–772
Holmes, J. W. et al., 21.10–353
Ivanov, B. N., 21.11–709
Korzhenevskiĭ, B. A., 21.11–700
L'vova, E. V., 21.11–701
Molitvin, P. V., 21.11–702
Pribluda, V. D., 21.7–779
Sarvary, I., 21.1–788
Shutov, Iu. I., 21.11–710
Sovschchanie po Voprosam Kompleksnogo Izucheniia Rezhima Poverkhnostnykh i Podzemnykh Vod v Karstovykh Raĭonakh, 1st, 1966, 21.7–774
Karst morphology
Williams, P. W., 21.4–549
Karst rivers
Molitvin, P. V., 21.11–714
Katabatic winds
Horney, G., 21.3–619
Kelvin waves
Maruyama, T., 21.7–275
Wallace, J. M. et al., 21.3–438
Kew Observatory
Blackwell, M. J., 21.3–95
Collingbourne, R. H., 21.4–125
Kinetic energy
Mahlman, J. D., 21.5–401
Kinetic energy balance
Kung, E. C., 21.3–236, –414
Smith, C. L., 21.5–416
Starr, V. P. et al., 21.5–409
Kinetic energy in atmosphere
Bonner, W. D. et al., 21.10–215
Kohlsche, K., 21.6–269
Kites
ESSA [Wash., D. C.], 21.10–68
Kolmogorov's theory
Roth, R., 21.9–197
Kurihara grid
Dey, C. H., 21.3–216
Kuroshio Current
Sugiura, Y., 21.10–802, –803
Kuroshio Current studies
Barkley, R. A., 21.10–817
Hynitzsch, G., 21.12–766
Masuzawa, J., 21.4–726

L

LF emission generation
Jørgensen, T. S., 21.10–543, –544
LF emissions
Chesnut, W. G., 21.10–157
ESRIN-ESLAB Symposium, 2nd, Frascati, Italy, 1968, 21.9–159
Laboratory seeding verification
Pilie, R. J., 21.5–198
Lagrangian coordinates
Wehausen, J. V., 21.4–406
Lake breezes
Huss, E., 21.3–601
Muller, F. B., 21.5–507
Lake chemistry
Brezonik, P. L. et al., 21.10–763
Lake circulation
Birchfield, G. E., 21.9–266
Dornbusch, W., 21.12–716
Faller, A. J., 21.4–700
Lake current models
Davtian, N. A., 21.12–717
Lake currents
Csanady, C. T. et al., 21.2–619
Gudkov, G. D., 21.6–797
Miller, G. S., 21.9–664
Noble, V. E. et al., 21.3–575
Lake drainage
Bostock, H. S., 21.10–766
Lake effects on climate
Fontes, J. C. et al., 21.7–520
Lake effects on storms
Lavoie, R. L., 21.11–480
Lake evaporation
Yu, S. L., 21.4–262
Lake hydrology
DeCooke, B. G., 21.1–643
Iskendirov, T., 21.6–789
Jurenko, L., 21.6–790
Manson, P. W. et al., 21.4–259
Nicolae, T., 21.6–791
Petrova, R. S. et al., 21.4–600
Witherspoon, D. F., 21.6–787
Lake ice charts
Rondy, D. R., 21.2–642
Lake ice forecasting
Litynska, Z., 21.2–629
Lake ice surveys
Rondy, D. R., 21.4–627
Lake ice thickness
Fomichev, A. S., 21.2–617
Lake influences on precipitation
Kornienko, V. I., 21.8–421
Lansing, L., 21.1–619
Lake level changes
Bostock, H. S., 21.10–766
Lake level variations
Iskendirov, T., 21.6–789; 21.7–815
Korovin, V. I. et al., 21.10–767
Okabe, J. I., 21.10–769
Lake management
Lawhead, H. F., 21.6–792
Lake models
Birchfield, G. E., 21.9–266
Lake morphology
Svensson, H., 21.4–327
Lake outflow
Lawhead, H. F., 21.6–792
Lake pollution
Burd, R. S., 21.2–618
Environmental Science and Technology [Wash., D. C.], 21.8–697

Nature [London], 21.2–51
Nelson, G., 21.4–671
Lake regime inflow
Mower, R. W., 21.2–563
Lake snow forecasting techniques
Rothrock, H. J., 21.7–94
Lake stratification
Hattersley-Smith, G., 21.12–714
Lake studies
Environmental Science and Technology [Wash., D. C.], 21.2–527
Lake surge forecasting
Richardson, W. S. et al., 21.5–772
Lake temperature profiles
Anderson, D. V., 21.2–616
Lake temperature regime
Fomichev, A. S., 21.2–617
Richards, T. L. et al., 21.6–470
Lake temperature surveys
Lorenz, D., 21.5–496
Marlatt, W. E., 21.6–468
Noble, V. E. et al., 21.3–575
Richards, T. L. et al., 21.6–470
Lake temperatures
Hoopes, J. A., 21.4–607
Panait, I. et al., 21.7–816
Rabinovich, Iu. I., 21.4–181
Lake turbulent exchange
Heitmann, M. L., 21.10–770
Lee, C. Y., 21.6–509
Lake water balance
Conturk, H. et al., 21.1–770
Lake water composition
Delfino, J. J. et al., 21.7–814
McMahon, J. W., 21.10–765
Lake water manganese
Delfino, J. J. et al., 21.10–764
Lake water mixing
Falkenmark, M. et al., 21.6–796
Hoopes, J. A., 21.4–607
Lake water movements
Yuen, K. B., 21.7–817
Lakes and reservoirs
Petrova, R. S. et al., 21.4–600
Laminar boundary layer
Hinzpeter, H. et al., 21.6–195
Laminar flow
Walz, A., 21.5–503
Land and sea breezes
Feit, D. M., 21.4–220
Hsu, S.-A., 21.7–491
Land ice
Prebble, M. M., 21.2–640
Land management
Biswell, H. H., 21.6–761
Land reclamation
Kornilov, B. A. et al., 21.8–690
Land subsidence
Johnson, A. I. et al., 21.10–433
Lofgren, B. E. et al., 21.10–434
Land uplift
Hattersley-Smith, G., 21.12–714
Land utilization
Garcés, C., 21.6–762
Teller, H. L., 21.9–620
Uhlig, D., 21.1–660
Land utilization conferences
Symposium on Land Evaluation, Canberra, 1968, 21.1–34
Langmuir Laboratory, New Mexico
Instrumentation Technology [Pittsburgh, Pa.], 21.9–206
Langmuir probes
Mozer, F. S., 21.6–121
Parker, L. W., 21.7–71
Smith, L. G., 21.6–124
Lanthanum fluoride electrodes
Warner, T. B., 21.3–787
Lapse rate variations
Landsberg, H. E., 21.12–444
Lapse rates
Hofmeyr, W. L., 21.5–485
Vuorela, L. A., 21.4–167; 21.6–452
Large scale atmospheric motions
Brahmananda Rao, V., 21.10–237
Danard, M. B., 21.7–270
Macdonald, N. J., 21.3–433
Large scale diffusion
Kao, S. K. et al., 21.6–486
Large scale disturbances
Sawyer, J. S., 21.10–245
Large scale eddies
Holopainen, E. O., 21.10–216
Mahlman, J. D., 21.11–247
Large scale turbulent diffusion
Kao, S. K. et al., 21.1–492
Large scale vertical motions
Morskoĭ, G. I., 21.2–236
Large scale weather
Hess, P. et al., 21.4–96
Laser aerosol measurements
Grams, G. W., 21.6–173
Laser air-density measurement
Kostko, O. K. et al., 21.5–215
Laser altimetry
Kolker, M. et al., 21.2–22
Laser anemometers
Gersht, E. P., 21.3–195
Laser applications in meteorology
Jerusalem. Hebrew Univ., 21.11–37
Lawrence, R. S., 21.6–11
Lucy, R. F., 21.6–12
Symposium on Laser Propagation in the Atmosphere, 1968, 21.1–106
Laser beam measurements
Dobbins, D. L. et al., 21.3–56
Laser beam propagation
Deitz, P. H., 21.2–408
Gel'fer, E. I. et al., 21.10–573
Gracheva, M. E., 21.11–486
Kerr, J. R., 21.6–673
Mordukhovich, M. I., 21.10–574
Ochs, G. R. et al., 21.10–575

  - S″edin, V. Ia. et al., 21.10–576
  - Symposium on Laser Propagation in the Atmosphere, 1968, 21.1–106
  - Waksberg, A. L., 21.11–19
  - White, K. O. et al., 21.7–736
  - Zuev, V. E. et al., 21.1–178
- **Laser beam scattering**
  - Ferrara, R. et al., 21.4–269
  - Gilmartin, T. L. et al., 21.6–252
- **Laser beam scintillation**
  - Khmelevtsov, S. S., 21.12–467
- **Laser detection of turbulence**
  - Strohbehn, J. W., 21.10–322
- **Laser droplet measurement**
  - Kolosov, M. A., 21.12–525
- **Laser fog disdrometers**
  - Ferrara, R. et al., 21.1–570
- **Laser geodite**
  - Williams, O. W., 21.3–176
- **Laser light polarization**
  - Kabanov, M. V. et al., 21.2–349
- **Laser light scattering**
  - Harris, F. S., Jr., 21.4–372
- **Laser measurement of aerosols**
  - *U. S. Air Force. Office of Aerospace Research, Research Review,* 21.11–162
- **Laser measurement of air density**
  - Orszag, A. et al., 21.9–115
- **Laser measurement of ocean waves**
  - Olsen, W. S., 21.12–746
- **Laser measurement of water vapor**
  - Cooney, J., 21.6–31
- **Laser measurements of upper atmosphere**
  - Gibson, A. J., 21.5–41
- **Laser meteorology**
  - Fox, R. J., 21.7–735
- **Laser–ocular effects**
  - Deitz, P. H., 21.2–408
- **Laser probing of lower atmosphere**
  - Melfi, S. H. et al., 21.7–40
- **Laser propagation in atmospheric symposia**
  - Symposium on Laser Propagation in the Atmosphere, 1968, 21.1–106
- **Laser radar**
  - Carpenter, R. O. et al., 21.9–117
  - Grams, G. W., 21.6–173
  - Melfi, S. H. et al., 21.7–40
- **Laser radar applications in meteorology**
  - Schotland, R. M., 21.6–45
- **Laser radar observation of atmospheric pollution**
  - Inaba, H. et al., 21.5–258
- **Laser radar observations of upper atmosphere**
  - Clemesha, B. R., 21.6–20
- **Laser radiation in fog**
  - Ferrara, R. et al., 21.4–269
- **Laser radiation transmission in fog**
  - Kolosov, M. A. et al., 21.3–649
- **Laser simulation techniques**
  - Strong, J. P., III, 21.3–717
- **Laser uses**
  - Greated, C. A., 21.10–685
- **Lasers**
  - Pikhtelev, A. I. et al., 21.8–703
- **Lasers in atmospheric research**
  - *Facilities for Atmospheric Research* [Boulder, Colo.], 21.3–81
- **Latent heat**
  - Hastenrath, S. L., 21.6–268
- **Latent heat release**
  - Brahmananda Rao, V., 21.10–237
- **Lateral diffusion**
  - Osipov, Iu. S., 21.2–87
- **Lateral flow**
  - Jamieson, D. G. et al., 21.6–749
- **Latitudinal lightning variations**
  - Pierce, E. T., 21.8–634
- **Lavoie's model**
  - Spelman, M. J., 21.10–331
- **Leaching**
  - Kolenbrander, G. J., 21.2–400
- **Lead aerosols as ice nuclei**
  - Parungo, F. P., 21.11–372
- **Lead dust**
  - Chow, T. J. et al., 21.5–240
- **Lead iodide cloud seeding**
  - Hoffer, T. E., 21.5–574
- **Lead particles in urban air**
  - Bove, J. L., 21.12–232
- **Lead uptake by plants**
  - Ter Haar, G. L., 21.3–703
- **Leaf microclimate**
  - Thom, A. S., 21.2–309
- **Leaf temperatures**
  - Aston, A. R. et al., 21.5–428
- **Leaf wetness recorders**
  - Lomas, J., 21.12–96
- **Leaky aquifers**
  - Herrera, I. et al., 21.4–558
  - Neuman, S. P. et al., 21.4–560
- **Lee eddies**
  - Forchtgott, J., 21.6–527
  - *Weather* [London], 21.7–513
- **Lee wave calculations**
  - Ambrozy, P., 21.6–524
- **Lee wave clouds**
  - Sartor, J. D., 21.12–529
- **Lee wave models**
  - Wooldridge, G. et al., 21.1–546
- **Lee waves**
  - Kasahara, A. et al., 21.6–528
  - Lilly, D. K., 21.7–516
  - Lovill, J. E., 21.1–545
- **Lee waves, stationary**
  - Skoda, G., 21.12–464
- **Lee waves studies**
  - Reynolds, R. D., 21.6–531
  - Wooldridge, G. et al., 21.1–546
- **Legal aspects of oceanic resources**
  - Gullion, E. A., 21.1–26
- **Leonid meteor stream**
  - Bronshten, V. A., 21.11–616
  - Ferry, G. V., 21.12–617
  - Guth, V., 21.11–615

Hemenway, C. L., 21.12–612
Plavcova, Z., 21.11–609
Liberation point satellites
Farquhar, R. W., 21.3–151
Library catalogs
U. S. Environmental Science Services Administration, 21.5–23
Lidar atmospheric pollution observation
Reagan, J. A., 21.9–29
Lidar atmospheric research
Collis, R. T. H., 21.6–41
Lidar in atmospheric research
Brown, R. M., 21.7–26
Collis, R. T. H., 21.5–57
Erickson, J. D., 21.11–26
Jerusalem. Hebrew Univ., 21.11–37
Lidar investigation of mountain waves
Reynolds, R. D., 21.6–531
Lidar measurements
Ashwell, G. E. et al., 21.4–45
Lidar observation of atmospheric pollution
Hamilton, P. M., 21.1–295
Johnson, W. B., Jr. et al., 21.10–141
Lidar observation of clouds
Tiabotov, A. E. et al., 21.7–560
Lidar observations of aerosols
Naito, K. et al., 21.3–92
Lidar research
Facilities for Atmospheric Research [Boulder, Colo.], 21.3–81
Life on Mars
Davis, B. W., 21.8–745
Light absorption by aerosols
Ibraimov, N. M. et al., 21.5–676
Light attenuation by snow
O'Brien, H. W., 21.4–295
Light effects on photosynthesis
Larin, A. P. et al., 21.1–426
Light field studies
Golubitskiĭ, B. M. et al., 21.5–357
Light intensities in plant cover
Norman, J. M. et al., 21.7–49; 21.8–57
Light intensity
Anderson, R. C., 21.3–505
Papadakis, J., 21.3–506
Light intensity effects on forests
Malkina, I. S., 21.1–448
Light penetration of plant cover
Spurgeon, W. I., 21.4–335
Light polarization in seawater
Timofeeva, V. A., 21.12–591
Light propagation through atmospheric turbulence
Gracheva, M. E., 21.11–487
Kon, A. I., 21.11–488, –489
Light refraction in Venus atmosphere
Skotnikov, M. M., 21.11–577
Light scattering
Elsässer, H., 21.2–416
Kolesov, A. K., 21.12–592
Timofeeva, V. A., 21.4–373
Light scattering by ice crystals
Huffman, P. J. et al., 21.4–375
Light scattering in planetary atmospheres
Hanson, J. E., 21.4–428
Light scattering in sea
Golubitskiĭ, B. M. et al., 21.4–666
Hunkins, K. et al., 21.8–828
Light scattering measurements
Harris, F. S., Jr., 21.4–372
Light scattering of aerosols
Charlson, R. J. et al., 21.7–137
Light scattering recorders
Quenzel, H., 21.8–78
Light scattering through clouds
Zdunkowski, W. G. et al 21.5–453
Light transmission
Gracheva, M. E., 21.11 486
Kliatskin, V. I., 21.7–215
Sobolev, V. V., 21.4–148 21.8–571
Light transmission by seawater
Filippov, B. A., 21.9–685
Kampa, E. M., 21.12–745
Light transmission by water
Motschka, O., 21.12–715
Light transmission coefficient of iced glass
Tsitsenko, G. V., 21.12 411
Light transmission in ice
Schwerdtfeger, P., 21.4–368
Light transmission in lake
Ivanov, A. P. et al., 21.2 615
Light transmission in snow
Schwerdtfeger, P., 21.4–368
Light transmission instruments
Ivanov, A. P. et al., 21.2 615
Light transmission through clouds
Kasatkina, O. I., 21.11–13R
Lightning
Wood, A. B., 21.8–642
Lightning bibliographies
Smith, A. L., Jr. et al., 21.5–680
Lightning conductors
Golde, R. H., 21.2–361
Lightning counters
Kreielsheimer, K. S., 21.11–105
Pierce, E. T., 21.12–118
Lightning currents
Tsurumi, S., 21.9–433
Uman, M. A. et al., 21.8–639, –640
Lightning damage
Lehmann, G., 21.8–627

Lightning discharge effects
Anderson, F. J. et al., 21.10–496
Lightning discharge fields
Michnowski, S., 21.8–629
Lightning discharge frequency
Ventura, E., 21.8–641
Lightning discharge location
Taylor, W. L., 21.8–636
Lightning discharges
Kamyshanova, V. A., 21.7–307
Kolokolov, V. P., 21.7-301; 21.8–233
Lightning distribution
Boer, J. H. et al., 21.9–204
Pierce, E. T., 21.8–634
Lightning effects on magnetic field
Uman, M. A. et al., 21.8–639
Lightning fatalities
Orville, R. E., 21.8–632
Lightning field changes
Berger, K. et al., 21.8–623
Lightning formation
Berger, K. et al., 21.8–623
Imianitov, I. M. et al., 21.8–616
Lightning frequencies
Dennis, A. S., 21.8–625
Lightning investigations
Mackermas, D., 21.8–628
Lightning models
Orville, R. E., 21.8–633
Lightning photometry
Mackermas, D., 21.8–628
Lightning prevention
Stow, C. D., 21.3–302
Lightning protection
Golde, R. H., 21.2–361
Lightning radiation
Hill, R. D., 21.9–455
Kimpara, A., 21.9–456
Takagi, M., 21.9–461
Uman, M. A. et al., 21.8–640
Lightning recorders
Loch, B. F., 21.7–66
Lightning research
Berger, K. et al., 21.8–623
Uman, M. A., 21.8–638
Lightning return strokes
Orville, R. E., 21.8–633
Lightning shock waves
Belousova, L. E., 21.8–622
Lightning simulation
Newman, M. M., 21.10–497
Lightning sounds
Colgate, S. A., 21.7–726
Lightning spectroscopy
Salanave, L. E., 21.8–635
Lightning spectrum
Barasch, G. E., 21.7–716; 21.8–620
Connor, T. R., 21.2–360
Hill, E. L. et al., 21.8–626; 21.10–541
Mikhailova, G. A., 21.8–630
Salanave, L. E., 21.8–635
Lightning strokes
Troutman, W. W., 21.8–637
Lightning suppression
Fuquay, D. M., 21.7–109
Lightning temperature determination
Salanave, L. E., 21.8–635
Lightning temperatures
Hill, E. L. et al., 21.8–626
Uman, M. A., 21.10–498
Lightning textbooks
Cade, C. M. et al., 21.8–624
Lightning theories
Barreto, E., 21.8–621
Lightning–thunderstorm relationships
Nguyen, M. D., 21.8–631
Lightning transmission engineering
Wood, A. B., 21.8–642
Lightning VLF emissions
Oetzel, G. N. et al., 21.7–724
Limb darkening
Wilson, P. R., 21.8–759
Limb radiance calculations
Davis, R. E., 21.4–137
Limnological conferences
Wisconsin. Univ. Sea Grant Program, 21.4–636
Limnological data processing
Sweers, H. E., 21.12–713
Limnological research
Campbell, N. J. et al., 21.9–660
Kyoto, Japan. Univ., 21.9–648
Mikulski, Z. et al., 21.4–597
Limnological studies
Pennak, R. W., 21.6–786
Shil'krot, G. S., 21.12–712
Line Islands experiment
Madden, R. A. et al., 21.10–345
Line of sight experiments
Beard, C. I. et al., 21.3–78
Line source diffusion
Tang, C. M., 21.7–260
Titt, E. W., 21.1–372; 21.6–289
Walters, T. S., 21.4–210
Liquid precipitation cloud heights
Brylev, G. B., 21.12–537
Liquid water content
Toong, H. D., 21.11–378
Liquid water content meters
Asselin de Beauville, J. P. et al., 21.6–86
Liquid water content of clouds
Asselin de Beauville, J. P., 21.7–563
Decker, M. T., 21.10–91R
Literature citations
Battan, L. J., 21.9–292
Littoral drift
Silvester, R., 21.10–839
Littoral environment
Szuwalski, A., 21.11–38R
Littoral sediment transport
Silvester, R., 21.10–839
Lobster ecology
Dow, R. L., 21.4–738
Local forecast manuals
U. S. Air Weather Service, 21.9–99
Local synoptic studies
U. S. Air Weather Service, 21.3–289; 21.9–99
Local wind forecasting
Sangster, W. E., 21.9–86
Loess
Williams, R. E. et al., 21.4–566
Logging residue burning
Cramer, O. P., 21.1–288
Lombarde wind influences
Jail, M., 21.7–630

Long-distance radio wave propagation
  Whale, H. A., 21.7–208
Long period precipitation records
  Ahlgren, C. E., 21.9–372
Long period records
  Italy. Servizio Meteorologico dell' Aeronautica Militare, 21.6–55
  Klemm, F., 21.1–138; 21.10–49
  Peck, N. H. et al., 21.1–139
  Stuchlík, F., 21.7–702
Long period snowfall records
  Federal–State–Private Cooperative Snow Surveys, 21.1–627
  Manley, G., 21.8–433
Long period temperature records
  Ahlgren, C. E., 21.9–372
  Procacci, A., 21.8–316
Long range flood forecasting
  Zmieva, E. S. et al., 21.2–525
Long range forecast evaluation
  Bagrov, N. A., 21.12–158
Long range forecast verification
  Worner, H., 21.1–248
Long range forecasting
  Douchy, P., 21.6–319
  Batyreva, O. V., 21.3–277
  Blinova, E. N., 21.3–282
  Borisova, E. I., 21.2–40
  Borisova, L. G., 21.2–39
  Davis, W. O., 21.3–269
  Dzerdzeevskiĭ, B. L., 21.5–664
  Gruza, G. V., 21.3–280
  Kato, H., 21.11–246
  Pokrovskaia, T. V., 21.10–40R
  Ran'kova, E. Ia., 21.3–281
  Sapozhnikova, S. A., 21.11–458
Long range forecasting by statistical method
  Gruza, G. V. et al., 21.3–279
Long range forecasting techniques
  Aristov, N. A., 21.11–124
  Hay, R. F. M., 21.11–123
  Kupetskiĭ, V. N., 21.10–475
  Sestoft, I., 21.6–141
  Stuchlík, F., 21.7–702
  Zakharova, N. M., 21.9–410
Long range forecasts
  Koppany, G. et al., 21.10–115
  Weather Trends, Inc., 21.3–276
Long range precipitation forecasting
  Bagrov, N. A., 21.12–162
  DeVorkin, D. B. et al., 21.5–32
  Ter-Mkrtchian, M. G., 21.12–161
  Vorob'eva, E. V., 21.7–105
Long range rainfall forecasting
  Matsuoka, T., 21.11–117
  Murray, R., 21.3–260
  Quinn, W. H. et al., 21.6–139
Long range river ice forecasting
  Savchenkova, E. I., 21.4–617
Long range river runoff forecasting
  Shcherbak, A. V., 21.12–678
  Stachy, J., 21.9–604
Long range runoff forecasting
  Takasao, T., 21.11–690
Long range sea ice forecasting
  Canada. Meteorological Branch, 21.2–627; 21.4–618
  Kirillov, A. A. et al., 21.2–631
  Meshcherskaia, A. V. et al., 21.2–636
  Murzin, A. I. et al., 21.4–614
  Uralov, N. S., 21.9–670
Long range stream flow forecasting
  Teteriatnikova, E. P., 21.2–524
Long range temperature forecasting
  Bagrov, N. A., 21.12–15 –160
  Borisova, L. G., 21.3–560
  Bolotinskaia, M. Sh., 21.9 98
  Chistiakova, E. A., 21.3 553
  DeVorkin, D. B. et al 21.5–32
  Drogaĭtsev, D. A., 21. 278
  Gedeonov, A. D., 21.6–14
  Kryndin, A. N. et al 21.3–273
  Lecce, B. A., 21.1–240
  Mertsalova, N. I. et al 21.9–95
  Ur'eva, B. R., 21.3–28 –285
  Zakharova, N. M., 21.9 200
Long range weather forecasting
  Iudin, M. I., 21.3–272
Long wave propagation i fluids
  Bowman, W. T., 21.11–77
  Cherkesov, L. V., 21.11 780
Long wave radiation
  Iurgenson, A. P., 21.10 18R
Long wave radiation balance
  D'iachenko, L. N., 21.1– 424
  Lingova, St., 21.2–111
Long wave radiation field
  Zaĭtseva, N. A. et al., 21.4 134
Long wave radiation flux
  Gracius, L. M., 21.1–465
  Petrova, L. V. et al., 21.3– 512
  Zaĭtseva, N. A. et al. 21.4–134, –135
Long wave radiation heating
  Faraponova, G. P., 21.6– 375
Long wave radiation–synoptic relationships
  Zaĭtseva, N. A. et al., 21.4– 135

Long wave radiation transmission
Hinzpeter, H. et al., 21.5–449
Long waves
Yanai, M. et al., 21.4–94
Long waves in baroclinic atmosphere
Kurbatkin, G. P., 21.6–308
Longshore current formation
Bowen, A. J., 21.4–784
Longshore current velocity
Larras, J., 21.4–785
Loop antennas
Campbell, W. H., 21.5–727
Loop prominences
Kleczek, J., 21.12–634
Svestka, Z., 21.1–704
Low cloud dissipation
Gaivoronskiĭ, I. I. et al., 21.6–153
Low cloud formation
Arnold, J. E., 21.4–156
Low latitude auroras
Weill, G. M., 21.7–362
Low level dispersion
Iordanov, D., 21.7–252
Van der Hoven, I., 21.4–209
Low level jet stream
Findlater, J., 21.1–533
Ushijima, T., 21.5–525
Low level jet studies
Fichtl, G. H., 21.8–215
Low level jet–thunderstorm relationships
Cooke, L. T., 21.4–115
Low level temperature studies
Donciu, C., 21.11–307
Glass, R. I., Jr., 21.1–163
Lewinska, J., 21.5–474
Low level turbulence
Blackader, A. K. et al., 21.3–588
Chernikov, A. A. et al., 21.10–323
Elderkin, C. E., 21.1–484
McVehil, G. E. et al., 21.3–589
Minervin, V. E., 21.11–18R
Watson, I. A., 21.12–469
Low level wind structure
Szepesi, D., 21.6–506
Watson, I. A., 21.12–469
Yamamoto, G. et al., 21.3–591
Low level wind studies
Dettwiller, J., 21.1–507
Glass, R. I., Jr., 21.1–163
Schram, K., 21.5–509
Low temperature blackbody radiators
Karoli, A. R. et al., 21.8–235
Low temperature forecasting
Grama, M., 21.3–257
Low temperature persistence
Ţiştea, D. et al., 21.6–445
Zykova, G. G., 21.6–446
Low tides
McClelland, J. M., 21.12–802
Low visibility flying
Goodman, E. A. et al., 21.4–392
Low visibility simulation
Spooner, A. H., 21.5–675
Lower atmosphere cosmic rays
Velinor, P., 21.5–465
Lower atmospheric mean stability
Cagnetti, P. et al., 21.2–84
Lower atmospheric thermal structure
Tantawy, A. H. I., 21.7–449
Lower ionosphere
Davis, J. R. et al., 21.7–179
Grachev, A. I. et al., 21.7–184
Grebeniuk, Iu. V. et al., 21.8–178
Gregory, J. B. et al., 21.1–670; 21.2–70
Krinberg, I. A. et al., 21.5–351
Lacoume, J. L., 21.10–545
Manson, A. H. et al., 21.6–235
Nestorov, G., 21.1–674
Pogrebnoĭ, V. N. et al., 21.5–352
Prakash, S. et al., 21.10–181
Ryss, I. K., 21.11–208
Tulinov, V. F., 21.7–206
Van'ian, L. L., 21.12–311
Velinov, P., 21.11–213
Lower stratosphere
Mattana, N. et al., 21.2–92
Lower stratosphere ozone
Axim, K., 21.4–58
Lower stratospheric circulation
Vincent, D. G., 21.1–531
Zakharova, N. M., 21.9–200
Lower stratospheric methane
Kyle, T. G. et al., 21.3–322
Lower thermosphere
Champion, K. S. W., 21.5–310
Sheppard, L. M., 21.1–320
Lower thermosphere composition
Horiuchi, G., 21.5–314
Johnson, F. S. et al., 21.7–161
Schaefer, E. J., 21.4–56
Lower thermosphere temperatures
Schaefer, E. J., 21.4–56
Lower thermospheric composition
Hesstvedt, E., 21.12–278
Lower thermospheric temperatures
Chizhov, A. F., 21.10–314
Luminance
Bird, J. F. et al., 21.4–362
Luminescent layers
Groth, W., 21.5–105
Lunar alpha particle emissivity
Yeh, R. S. et al., 21.4–479
Lunar atmosphere
Gutkin, A. M. et al., 21.5–700
Lunar atmosphere contamination
Stoner, J. O., Jr., 21.9–492
Lunar atmospheric tides
Chapman, S., 21.1–476
Haurwitz, B., 21.11–332
Lunar bases
Gregory, R. L., 21.3–723
Malina, F. J., 21.4–475
Lunar brightness
Allen, L. H., 21.6–694
Shorthill, R. W. et al., 21.10–602

Lunar brightness variations
Berharz, R., 21.11–569
Chilton, K. E., 21.10–600
Wildey, R. L. et al., 21.9–490
Lunar colonies
Johnson, R. W., 21.3–724
Lunar conferences
Kliore, A. J., 21.9–485
Lunar diurnal geomagnetic variations
Chapman, S. et al., 21.5–735
Lunar diurnal pressure variations
Haurwitz, B., 21.11–332
Lunar eclipse
Fesenkov, V. G., 21.12–578
Lunar eclipse, April 1967
Chistiakov, V. F., 21.11–571
Lunar eclipse, Oct. 1967
Chistiakov, V. F., 21.11–571
Reber, E. E. et al., 21.9–489
Lunar eclipse, April 1968
Berharz, R., 21.11–569
Lunar eclipse observation
Chistiakov, V. F., 21.11–571
Lunar eclipses
Chernov, V. M., 21.11–570
Meeus, J., 21.2–438
Nature [London], 21.11–572
Lunar effects on geomagnetism
Fraser-Smith, A. C., 21.2–381
Lunar effects on weather
Fett, W., 21.8–567
Lunar electric field
Schwartz, K. et al., 21.10–604
Lunar environment
Berry, C. A., 21.3–722
Lowman, P. D., Jr., 21.6–695
Öpik, E. J., 21.4–477
Stoner, J. O., Jr., 21.9–492
Lunar environment and man
Gregory, R. L., 21.3–723
Johnson, R. W., 21.3–724
Lowman, P. D., Jr., 21.3–725
Meyer, A. J., 21.3–726
Lunar environmental effects on man
Öpik, E. J., 21.4–477
Lunar evolution
Urey, H. C. et al., 21.10–603
Lunar exploration
Berry, C. A., 21.3–722
Kopal, Z., 21.2–405
Malina, F. J., 21.4–475
Meyer, A. J., 21.3–726
Ness, N. F., 21.9–486
U. S. National Aeronautics and Space Administration, 21.9–487
Lunar geology
Urey, H. C. et al., 21.10–603
Lunar gravitational field
Goudas, C. L., 21.11–568
Melchior, P., 21.4–499
Moritz, H., 21.7–750
Lunar history
Urey, H. C. et al., 21.4–478
Lunar history models
Alfvén, H. et al., 21.4–473
Lunar influences
Fraser-Smith, A. C., 21.2–381
Lunar internal heat flow
Langseth, M. G., Jr. et al., 21.9–494
Lunar ionospheric effects
Dunford, E., 21.3–374
Lunar ionospheric tides
Rastogi, R. G., 21.2–77
Lunar ionospheric variations
Kotadia, K. M. et al., 21.1–671
Lunar landings
Menzel, D. H., 21.7–751
Lunar magnetic field
Fuller, B. D. et al., 21.9–493
Schwartz, K. et al., 21.10–604
Lunar magnetism
Griffel, D. H., 21.2–412
Lunar maria
Dietz, R. S., 21.1–728
Lunar origin
Lyttleton, R. A., 21.2–436
Urey, H. C. et al., 21.4–478
Lunar photographs
Allen, L. H., 21.6–694
Lunar photography
Brunk, W. E., 21.10–605
Lunar photometry
Shorthill, R. W. et al. 21.10–602
Lunar probes
U. S. National Aeronautics and Space Administration, 21.5–697
Lunar radio emission during eclipse
Reber, E. E. et al., 21.9–489
Lunar radio wave scattering
Bogdanov, A. A. et al. 21.11–567
Lunar resources
Lowman, P. D., Jr., 21.3–725
Lunar semidiurnal tides
Geller, M. A., 21.7–703
Lunar spectra
Kuiper, G. P. et al., 21.8–737
Lunar studies
Michelson, I., 21.4–476
Lunar surface exploration
Brunk, W. E., 21.10–605
Jaffe, L. D. et al., 21.7–752
Lunar surface features
Alekseev, V. A., 21.4–457
Jaffe, L. D. et al., 21.7–752
Lunar surface temperatures
Harrison, J. K., 21.9–488
Menzel, D. H., 21.7–751
Lunar temperature history
Urey, H. C., 21.4–481
Lunar temperatures
Brusin, V. A., 21.5–698
Langseth, M. G., Jr., 21.9–494
Lucas, J. W., 21.5–699
Reber, E. E. et al., 21.9–489
Starodubtsev, A. M., 21.8–728
Lunar tidal effects on ionosphere
Butcher, E. C. et al., 21.7–176

Lunar wake
Jones, D. E., 21.2–437
Lunar water surveys
Henderson, G. C., 21.10–601
Luni-solar perturbations
Roy, A. E., 21.3–162
Lyman-alpha emission
Meier, R. R., 21.6–390
Lyman-alpha nightglow
Meier, R. R., 21.6–390
Lyman-alpha radiation–ionospheric effects
Tulinov, V. F., 21.7–206
Lysimeter experiments
Liebscher, H. J., 21.12–664
Qashu, H. K., 21.5–656
Schubach, K., 21.10–355
Lysimeter investigations
Blackie, J. R. et al., 21.9–351
Dagg, M. et al., 21.9–354
Wangati, F. J., 21.9–362
Lysimeter studies
Rijtema, P. E. et al., 21.5–566
Lysimeters
Goddard, W. B., 21.11–99
Haupt, H. F., 21.10–414
Salati, E., 21.11–100

M

Macroclimates
Coetzee, J. A. et al., 21.1–23
Macroprocesses
Turketti, Z. L., 21.2–42
Macrostructure of meteorological field
Gandin, L. S., 21.9–27R
Macroturbulence
Sharov, V. et al., 21.7–265
Panchev, S., 21.8–219
Magnetic charts
De Vuyst, A. et al., 21.5–742
Magnetic disturbance distribution
Raja Rao, K. S., 21.5–733
Magnetic effects on cosmic rays
Barcus, J. R., 21.7–393
Magnetic field effects
Schatten, K. H. et al., 21.3–714
Van der Borght, R., 21.8–713
Magnetic field–sunspots effects
Danielson, R. E. et al., 21.2–470
Magnetic field theories
Griffel, D. H., 21.2–412
Magnetic storm–auroral relationships
Wilson, C. R., 21.10–526
Magnetic storm–cosmic ray relationships
Kahler, S. W., 21.7–412
Magnetic storm effects on ionosphere
Reddy, B. M., 21.11–206
Magnetic storm theories
Ferraro, V. C. A., 21.2–138
Krasovskiĭ, V. I., 21.8–656
Nikol'skiĭ, A. P., 21.11–537
Pudovkin, M. I. et al., 21.10–288
Magnetic substorms
Vigneron, J. et al., 21.5–734
Magnetohydrodynamics
Anderson, G. F. et al., 21.1–692
Gul'el'mi, A. V., 21.1–665
Kahalas, S. L., 21.3–386
Khantadze, A. G., 21.11–192
Taffe, W. J., 21.8–202
Magnetopause
Davies, C. M., 21.1–679
Kaufmann, R. L., 21.3–387
Olson, W. P., 21.4–73
Magnetosheath observations
Strong, I. B., 21.7–385
Magnetosphere composition
Shawhan, S. D., 21.10–547
Magnetosphere–radiation belt relationships
Anderson, K. A., 21.8–257
Magnetosphere shape
Olson, W. P., 21.4–73
Magnetosphere–solar proton relationships
Hudson, P. D. et al., 21.2–143
Montgomery, M. D. et al., 21.2–149
Williams, D. J., 21.2–156
Magnetosphere structure
Stassinopoulos, E. G., 21.11–300
Magnetosphere studies
Schardt, A. W. et al., 21.6–414
Magnetosphere whistler investigations
Shawhan, S. D., 21.10–547
Magnetospheric boundary
Samokhin, M. V., 21.8–212
Magnetospheric charged particles
Russell, C. T., 21.12–430
Magnetospheric convection
Heppner, J. P., 21.6–249
Magnetospheric currents
Bonnevier, B. et al., 21.8–611
Fukushima, N., 21.11–507
Magnetospheric dynamics
Atkinson, G., 21.12–314
Magnetospheric ELF noise
Russell, C. T. et al., 21.9–459
Magnetospheric electric fields
Dungey, J. W., 21.10–494
Gurevich, A. V. et al., 21.8–272
Katz, L. et al., 21.2–351
Liu, C. S., 21.12–316
McDiarmid, I. B. et al., 21.7–376
Mozer, F. S. et al., 21.4–385
Tverskoĭ, B. A., 21.11–501
Magnetospheric electromagnetic wave propagation
Bird, H. H. et al., 21.5–460
Magnetospheric electron density
Dieminger, W. et al., 21.4–62
Grard, R., 21.7–211
Magnetospheric instability
Bird, H. H. et al., 21.5–460
Magnetospheric irregularities
Ramasastry, J. et al., 21.6–238
Magnetospheric models
Mishin, V. M. et al., 21.8–285
Pfitzer, K. A. et al., 21.10–287

- Ramasastry, J. et al., 21.3–388

Magnetospheric motions
- Atkinson, G., 21.12–314
- Samokhin, M. V., 21.10–204

Magnetospheric oscillations
- Briunelli, B. E. et al., 21.8–209
- Namgaladze, A. A., 21.4–72

Magnetospheric particles
- Johnson, H. E., 21.1–279

Magnetospheric physics
- Ershkovich, A. I. et al., 21.8–210
- Falthammar, C. G., 21.6–247

Magnetospheric plasma
- Gringauz, K. I., 21.8–211

Magnetospheric plasma density
- Haurwitz, M. W., 21.8–274
- Namgaladze, A. A., 21.4–72

Magnetospheric plasma dynamics
- Falthammar, C. G., 21.6–247
- Samokhin, M. V., 21.4–75; 21.10–204

Magnetospheric radio noise
- Smith, E. J., 21.2–386

Magnetospheric radio wave propagation
- Fejer, J. A. et al., 21.4–70
- Ramasastry, J. et al., 21.3–388

Magnetospheric research
- *American Geophysical Union, EOS: Transactions,* 21.11–519
- Fejer, J. A. et al., 21.4–70

Magnetospheric structure
- Russell, C. T., 21.12–430

Magnetospheric studies
- Beliakova, S. I. et al., 21.1–374

Magnetospheric substorms
- Akasofu, S. I. et al., 21.2–131

Magnetospheric temperatures
- Sanatani, S. et al., 21.7–213
- Shawhan, S. D., 21.10–547

Magnetospheric VLF radiation
- Burtis, W. J., 21.2–379

Magnetospheric waves
- Dungey, J. W., 21.10–494

Man–climate influences
- Cantu, V., 21.8–117

Manganese in lake water
- Delfino, J. J. et al., 21.7–814

Manned space flights
- Makhudov, B. M., 21.6–408

Man's influence on climate
- McDonald, G. J. F., 21.11–152
- Walczewski, J., 21.12–202

Man's influence on the sea
- Oren, O. H., 21.10–830

Mantle aurora
- Gowell, R. W., 21.3–129

Maps, 5-mb, Northern Hemisphere
- Kriester, B., 21.9–158R

Maps, 10-mb, Northern Hemisphere
- Just, D., 21.9–167R, –168R

Maps, 30-mb, Northern Hemisphere
- Just, D., 21.9–169R

Maps, 50- and 100-mb
- Kriester, B., 21.9–159R, –160R

Maps, 850-mb, Northern Hemisphere
- Geb, M., 21.9–166R, –170R

Marigraphs
- Bondarenko, A. L., 21.4–647

Marine air
- Miller, A., 21.4–225
- Viswanadham, Y. et al., 21.7–246

Marine atmosphere
- Dinger, J. E., 21.11–371

Marine atmospheric boundary layer
- Hinzpeter, H. et al., 21.6–195

Marine–climate relationships
- Bryan, K., 21.6–833

Marine climatology
- Dickson, R. et al., 21.10–828
- Maxwell, W. G. H., 21.10–444
- Parmuzina, T. A., 21.2–30

Marine ecology
- Angot, M., 21.1–744
- Stoddart, D. R., 21.3–762

Marine effects on climate
- Manabe, S. et al., 21.2–333
- Wixon, D. W., 21.2–334

Marine engineering
- Ocean Test Range & Instrumentation Conference, OTRAN, Honolulu, 21.2–690

Marine geological research
- Calif. Univ. Scripps Inst. of Oceanography, 21.1–715

Marine geology
- Lisitsin, A. P., 21.1–12

Marine geophysical surveys
- Texas Instruments, Inc., Dallas, 21.1–722, –723

Marine meteorological data
- Netherlands, 21.8–33
- Nicholson, J. R., 21.7–36

Marine meteorological data evaluation
- Marcus, S. O., Jr., 21.5–67

Marine meteorological data processing
- Birman, B. A., 21.1–93

Marine meteorological forecasting
- Newman, L. W., 21.10–96

Marine meteorological networks
- Meteorological stations in Iceland, 21.6–47

Marine meteorological observations
- Hodge, W. T., 21.2–17
- Japan. Meteorological Agency, 21.5–66
- Whiting, D. M., 21.4–14

Marine meteorological research
- Dickson, R. et al., 21.10–828
- Hohn, R., 21.1–69

Marine meteorological services
- Baraou, J., 21.3–5

Marine meteorological studies
- Brocks, K., 21.3–119
- *Marine Observer* [London], 21.1–39
- Ramanathan, K. R., 21.12–11R
- Walden, H., 21.11–17

Marine meteorology
- Hayashi, S. et al., 21.5–10
- Kruhl, H., 21.11–130
- Rapp, R. R., 21.11–249
- Rodewald, M., 21.11–265

Marine observation manuals
- Argentina, 21.8–18
- Great Britain. Meteorological Office, 21.3–41

Marine pollution
- Singer, S. F., 21.4–404

Marine radar
- Wylie, F. J., 21.1–21

Marine radiometry
- Williams, G. F., Jr., 21.6–835

Marine research in the Caribbean Sea
- Bayer, F. M., 21.12–734

Marine science conferences
- Conference on the Technology of the Sea and the Sea-Bed, 21.7–829
- Danilov, V. J., 21.3–756

Marine science research
- North Carolina Univ. Office of Marine Sciences, 21.2–651

Marine sediment cores
- Ruddiman, W. F., 21.12–

Marine surface observation summaries

776
- U. S. Naval Weather Service, 21.11–59

Marine wind velocity measurements
- Williams, G. F., Jr., 21.6–835

Mariner-4 observations of Mars
- Heuseler, H., 21.2–444
- Young, A. T., 21.8–749

Mariner-5 radio occultation experiment
- Fjeldbo, G. et al., 21.9–498
- Kliore, A., 21.9–503

Mariner Mars project
- U. S. National Aeronautics and Space Administration, 21.9–516

Maritime Territory, Asiatic R.S.F.S.R.
- Fedoreĭ, V. G., 21.2–534
- Stepanova, O. I., 21.2–595

Markov chain model
- Crutcher, H. L. et al., 21.1–237
- Llamas, J., 21.7–588

Mars
- Adams, J. B. et al., 21.9–512

Mars atmosphere
- Dollfus, A. et al., 21.8–746; 21.10–613
- Golitsyn, G. S., 21.8–732
- Goody, R., 21.11–574
- Groves, G. V., 21.12–203
- Ianovitskiĭ, E. G., 21.12–5R
- Kliore, A. et al., 21.10–616
- Wallio, H. A. et al., 21.10–622

Mars atmospheric composition
- Kaplan, L. D. et al., 21.10–615
- McElroy, M. B. et al., 21.10–620
- Sytinskaia, N. N., 21.11–28R

Mars atmospheric density
- LeBel, P. J., 21.10–618

Mars atmospheric dust
- Davis, B. W., 21.8–745

Mars atmospheric optics
- Davydov, V. D., 21.11–578
- Koval', I. K. et al., 21.10–617
- Morozhenko, A. V., 21.8–747
- Young, A. T., 21.8–749

Mars atmospheric pollution
- Koval', I. K. et al., 21.10–617

Mars atmospheric pressure
- Morozhenko, A. V., 21.8–747

Mars atmospheric spectra
- Barth, C. A. et al., 21.10–612

Mars atmospheric temperatures
- Aleshin, V. I. et al., 21.8–744

Mars brightness
- Barabashov, N. P., 21.10–611
- Davydov, V. D., 21.9–513, –514
- Koval', I. K. et al., 21.10–617

Mars circulation
- Goody, R., 21.6–701
- Leovy, C. et al., 21.7–756

Mars climate
- Leovy, C. et al., 21.7–756

Mars exploration
- U. S. National Aeronautics and Space Administration, 21.9–516

Mars ionosphere
- Goody, R., 21.11–575
- Gringauz, K. I., 21.12–300
- McElroy, M. B. et al., 21.10–620

Mars polar cap
- Aleshin, V. I., 21.12–606
- Herr, K. C. et al., 21.10–614

Mars probes
- U. S. National Aeronautics and Space Administration, 21.9–516

Mars radio emission
- Troitskiĭ, V. S., 21.12–595

Mars surface
- Dollfus, A. et al., 21.8–746

Mars surface temperatures
- Aleshin, V. I. et al., 21.8–744
- Morrison, D. et al., 21.9–515

Mars thermal energy measurements
- Neugebauer, G., 21.8–748

Mars upper atmosphere
- Barth, C. A. et al., 21.10–612

Martian atmosphere
- Seiff, A., 21.2–447

Martian brightness
- McCord, T. B., 21.2–446

Martian color changes
- McCord, T. B., 21.2–446

Martian meteorology
Heuseler, H., 21.2–444
Leavy, C. B., 21.2–445
Martian polar caps
Kieffer, H., 21.5–689, –690
Martian probes
Weiss, G., 21.2–448
Martian surface features
Heuseler, H., 21.2–444
Martian surface photometry
McCord, T. B., 21.2–446
Martian temperatures
Chase, S. C., Jr., 21.5–106
Martian water vapor
Viktorova, A. A. et al., 21.2–443
Maser beam absorption
Birch, J. R. et al., 21.3–638
Mass budget of glaciers
Grunow, J. et al., 21.4–284
Mass exospheric temperatures
Stewart, R. W. et al., 21.6–702
Mass spectrometry
Kelley, R. E., 21.11–191
Mass transport by water waves
Huang, N. E., 21.11–764
Mathematical models
Beard, L. R., 21.2–576
Cruickshank, V. C. et al., 21.4–506, –507
Dawdy, D. R., 21.4–507
Finn, D. L., 21.3–585
Glukhovskiĭ, A. B., 21.5–30
Moses, H., 21.5–274
Orlob, G. T., 21.4–598
Roche, M. et al., 21.8–468
Mathematical wind profiles
Court, A. et al., 21.4–224
Mathematics in meteorology
Lindzen, R. S. et al., 21.7–235
Mauna Loa High Altitude Observatory
Dennett, J. T., 21.10–35
Maximum daily rainfall
Bailey, M., 21.7–613
Maximum flood discharge
Hazan, R., 21.10–417, –698
Pardé, M., 21.10–419
Maximum flood discharge calculations
Rao, G. A. N., 21.8–476
Zalesskiĭ, F. V., 21.5–653
Maximum flood discharge estimation
Alexander, G. N., 21.9–589
Banerji, S. et al., 21.8–407
Francou, J. et al., 21.8–786
Heras, R., 21.9–597
Jacquet, J. et al., 21.6–626
Le Gourières, D., 21.9–586
Pardé, M., 21.7–783
Rodier, J., 21.7–607
Maximum flood discharges
Platagea, G., 21.10–717
Maximum flow rates of rivers
Shvets, G. I., 21.7–803
Maximum gust lapse
Brook, R. R. et al., 21.6–477
Maximum precipitation
Babichenko, V. N., 21.8–402
Maximum precipitation data
Havlik, D., 21.5–607
Maximum precipitation estimates
Paulhus, J. L. H., 21.6–623
Maximum precipitation estimation
Epifani, R., 21.7–614
Marx, S., 21.8–403
Maximum probable precipitation estimates
Banerji, S. et al., 21.8–407
Dhar, O. N. et al., 21.9–316
Lumb, F. E., 21.10–387
Myers, V. A., 21.6–311
Maximum probable rainfall
Bell, G. J. et al., 21.2–261
Maximum river discharge
Boldyrev, V. M. et al., 21.4–522
Byshovets, L. B., 21.4–580, –588
Kuksin, I. E., 21.4–519
Maximum river discharge calculations
Boldakov, E. V. et al., 21.2–548; 21.9–591
Chekushkina, T. A., 21.12
669
Cöntürk, H., 21.10–704
Denisov, Iu. M., 21.9–19R
Egiazarov, I. V. et al
21.9–594
Evstigneev, V. M., 21.9
607
Gartsman, I. N., 21.9–29
Mokliak, V. I., 21.12–672
Van Der Mode, J. W.
21.6–756
Watt, W. E., 21.7–647
Maximum river discharg
Tamazian, A. A., 21.11–73
Maximum runoff
Kalinin, G. P. et al., 21.6–755
Kybkina, M. P. et al.
21.4–528
Nemec, J. et al., 21.6–628
Maximum runoff calculations
Datta, R. K., 21.11–386
Georgiev, S. G., 21.8–396
Kritskiĭ, S. N. et al., 21.6–758; 21.10–30R
Shatberashvili, P. A., 21.9–587
Vishnevskiĭ, P. F., 21.5–652
Zimont, I. L., 21.8–480
Maximum snow accumulation
Peczely, G., 21.9–329
Maximum temperature forecast
Klein, W. H., 21.12–143
Maximum temperature forecasting
Klein, W. H. et al., 21.7–92
Olsen, D. E., 21.12–144
Maximum temperatures
Westbrook, J. H., 21.6–440
Maximum upper air wind forecasting
Crutcher, H. L. et al., 21.1–237
Maximum upper air winds
Poje, D., 21.7–508
Maximum wind calculations
Hubert, L. F. et al., 21.1–408; 21.3–462

Zavarina, M. V. et al., 21.5–515
Maximum wind velocities
Ivanov, V. Kh., 21.10–334; 21.12–485
Sharma, B. L., 21.7–498
Meadow microclimatology
Wagner, R., 21.6–441
Meadow temperatures
Wagner, R., 21.6–441
Mean annual temperature
Bailey, H. P., 21.3–104
Mean meridional circulation
Hastenrath, S., 21.7–272
Ignatiushina, E. N., 21.11–254
Mahlman, J. D., 21.3–353
Murgatroyd, R. J., 21.1–392
Murray, R. et al., 21.1–393
Solot, S. B., 21.4–93
Vincent, D. G., 21.1–531
Mean monthly precipitation
Lebedev, A. N., 21.6–597
Mean monthly precipitation forecasting
Fadeeva, I. P., 21.12–163
Mean monthly pressure variations
Diubkin, I. A., 21.11–314
Mean monthly soil temperatures
Shkadova, A. K., 21.4–178
Mean monthly temperature anomalies
Andrusenko, K. A., 21.12–446
Mean monthly temperature forecasting
Fadeeva, I. P., 21.12–163
Mean monthly temperature variations
Diubkin, I. A., 21.11–314
Mean monthly temperatures
Girskaia, E. I. et al., 21.4–162
Mean sea level anomalies
Grivel, F., 21.2–698
Mean value calculations
Junghans, H., 21.4–322
Mean zonal flow
Starr, V. P. et al., 21.5–409
Medical climatology
Thams, J. C., 21.8–559
Medical climatology conferences
Deschwanden, J. S. von et al., 21.8–538
Medical meteorology
Cassedy, J. H., 21.4–339
Mediterranean Sea
Ivanov, V. N. et al., 21.2–765
Medium frequency radio wave propagation
Knight, P. et al., 21.8–704
Medium range forecasting
Koppany, G., 21.12–172
Maede, H., 21.10–343
Meighen Ice Cap
Paterson, W. S. B., 21.5–777
Mercury atmosphere
Golitsyn, G. S., 21.8–732
Mercury barometer accuracy
Niemi, S. P. A., 21.6–77
Mercury temperature
Morrison, D., 21.8–733
Mercury thermometers
Ukhanova, E. A., 21.9–57
Meridional circulation
Bolotinskaia, M. Sh. et al., 21.6–291
Meridional circulation of seawater
Stepanov, V. N., 21.4–699
Meridional heat
Henning, D., 21.3–442
Meridional temperature gradient
Korff, H. C. et al., 21.6–436
Meridional transport of ozone
Dütsch, H. U. et al., 21.5–325
Meridional wind components
Kalugina, T. P. et al., 21.6–493
Mesoanalysis of rainstorms
Matsumoto, S. et al., 21.8–410, –411
Saha, A. T., 21.10–393
Mesoanalysis of snowstorms
Miyazawa, S., 21.6–617
Mesoclimate
Yoshino, M., 21.8–503, –504
Mesoclimatological data
Roberts, J. A., 21.11–462
Mesojets
Snitkovskiĭ, A. I., 21.12–486
Mesometeorological networks
Buz, A. I., 21.10–34
Entrekin, H. D. et al., 21.3–288
Fankhauser, J. C., 21.3–475
Mesometeorological studies
Gericke, M., 21.4–329
Gutman, L. N. et al., 21.10–243
Mesoprocesses
Kibel, I. A., 21.2–307
Mesoscale analysis
Gutman, L. N. et al., 21.10–243
Mesoscale atmospheric motions
Goldman, J. L. et al., 21.6–267
Mesoscale cloud patterns
Bonner, W. D. et al., 21.3–148
Mesoscale disturbances
Lavoie, R. L., 21.6–323
Shakina, N. P. et al., 21.2–224
Mesoscale forecast research
Buttenberg, M., 21.10–103
Mesoscale fronts
Sanders, F., 21.7–310
Mesoscale high
Herman, J. A., 21.1–413
Mesoscale pressure variations
Roling, Heike, 21.6–343
Tolstoy, I., 21.4–187
Mesoscale rainfall studies
Atlas, D., 21.10–88R
Bodalai, I. et al., 21.9–302
Mesoscale vertical atmospheric motions
Mikashavidze, B. A. et al., 21.10–349

Mesoscale waves
- Matsumoto, S. et al., 21.5–402

Mesoscale wind fluctuations
- Srivastava, R. C. et al., 21.8–382

Mesoscale wind structure
- James, D. G. et al., 21.1–104

Mesosphere structure
- Quiroz, R. S., 21.3–354

Mesosphere water vapor
- Fedynskiĭ, A. V., 21.5–49
- Markov, M. N., 21.1–551

Mesospheric circulation
- Bugaeva, I. V. et al., 21.2–88
- Kats, A. L., 21.10–23R
- Miers, B. T., 21.7–505
- Rahmatulla, M., 21.12–369

Mesospheric composition
- Hesstvedt, E., 21.12–278

Mesospheric heating
- Drayson, S. R. et al., 21.6–346
- Houghton, J. T., 21.1–457

Mesospheric nitric oxide
- Mitra, A. P., 21.6–202

Mesospheric temperature measurements
- Pontikis, C. et al., 21.6–29

Mesospheric temperature profile
- Drayson, S. R. et al., 21.6–346

Mesospheric temperature variations
- Angell, J. K. et al., 21.5–486
- Theon, J. S. et al., 21.6–456

Mesospheric wind variations
- Angell, J. K. et al., 21.5–486

Mesospheric winds
- Miers, B. T., 21.7–505
- Pachomov, S. V., 21.3–72, –628

Metal corrosion
- Knotkova-Čermáková, D., 21.6–656

Metal corrosion prevention
- Clarke, F. E. et al., 21.3–709

Metastable oxygen
- Noxon, J. F., 21.10–274

Meteor ablation
- Lebedinets, V. N. et al., 21.10–637

Meteor corpuscular radiation effects
- Lal, D. et al., 21.4–491

Meteor deceleration
- Lebedinets, V. N. et al., 21.10–637

Meteor dynamics
- International Astronomical Union, 21.4–488

Meteor effects in upper atmosphere
- Shefov, N. N. et al., 21.9–219

Meteor fragmentation
- Simonenko, A. N., 21.11–603

Meteor heights
- Kohoutek, L., 21.9–520

Meteor influx rate
- Whipple, F. L., 21.11–605

Meteor ionization
- Babadzhanov, P. B., 21.2–450
- Glöde, P., 21.9–517

Meteor-light phenomena effects
- Schröder, W., 21.11–485

Meteor luminosity
- Kramer, E. N. et al., 21.10–634

Meteor mass distribution
- Bel'kovich, O. I. et al., 21.10–635
- McIntosh, B. A., 21.10–638
- Simek, M., 21.11–612

Meteor observations
- Grygar, J. et al., 21.9–518

Meteor orbit determination
- Simonenko, A. N., 21.7–731

Meteor orbits
- Lebedinets, V. N., 21.4–490

Meteor particle measurements
- Nazarova, T. N., 21.10–639

Meteor photographs
- Babadzhanov, P. B., 21.11–599

Meteor photography
- Halliday, I., 21.11–619

Meteor physics
- Cook, A. F., 21.4–487
- International Astronomical Union, 21.4–488

Meteor radiant calculatio
- Simonenko, A. N., 21.7–731

Meteor radiant distribution
- Bel'kovich, O. I. et al. 21.10–635
- Carrara, N. et al., 21.11 600
- Stohl, J., 21.11–604
- Trísková, L., 21.10–641

Meteor radiant measurements
- Andrianov, N. S. et al. 21.11–560

Meteor shower compositio
- Elford, W. G., 21.11–614
- Porubcan, V., 21.11–610

Meteor shower–cosmic rays effects
- Bel'skiĭ, S. A., 21.12–234

Meteor shower orbits
- Guth, V., 21.11–615

Meteor shower radiants
- Astapovich, I. S., 21.11–606

Meteor showers
- Alfvén, H., 21.9–466
- Kaiser, T. R., 21.4–435
- Kresak, L., 21.11–608

Meteor showers–comet relationships
- Sekanina, Z., 21.11–611
- Terent'eva, A. K., 21.11–613

Meteor showers studies
- Bronshten, V. A., 21.11–616
- Forti, G., 21.11–607
- Plavcova, Z., 21.11–609
- Terent'eva, A. K., 21.11–613

Meteor spectra
- Barbon, R., 21.11–617
- Ceplekha, Z., 21.11–618
- Halliday, I., 21.11–619
- Hirose, H., 21.11–620
- Millman, P. M., 21.5–712

Meteor theories
Bronshten, V. A. et al., 21.4–423
Cook, A. F., 21.4–487
Meteor trail diffusion
Babadzhanov, P. B. et al., 21.9–255
Kaiser, T. R., 21.11–601
Lebedinets, V. N. et al., 21.11–561
Meteor trail investigations
Babadzhanov, P. B., 21.11–599
Lebedinets, V. N., 21.12–615
Meteor trail wind observations
Revah, I., 21.7–507
Meteor trails
Kostylev, K. V., 21.9–521
Meteor trajectory determination
Uvarov, D. B., 21.10–485
Meteor–upper atmosphere interaction
Rajchl, J., 21.9–522
Meteor wind observations
Karimov, K. A., 21.6–511
Pokrovskiĭ, G. B. et al., 21.4–241
Meteoric dust
Konstantinov, B. P., 21.12–614
Kornblum, J. J., 21.1–299
Meteoric dust in upper atmosphere
Hodge, P. W. et al., 21.7–743
Meteoric influences
Zotkin, I. T., 21.9–419
Meteoric luminescence
Babadzhanov, P. B., 21.2–450
Meteoric matter in space
Nazarova, T. N., 21.12–616
Meteorite composition
Lal, D. et al., 21.4–491
Lewis, J. S., 21.2–441
Meteorite particles
Ferry, G. V., 21.12–617
Meteorite structure
Lewis, J. S., 21.2–441
Meteoritic dust
Link, F., 21.8–578
Meteoritic dust measurement
Hemenway, C. L., 21.12–612
Meteoritic dust measurement techniques
Grün, E. et al., 21.10–636
Meteoritic gases
Lal, D. et al., 21.4–491
Meteoritic phenomena
Lal, D., 21.3–539
Meteorological and climatological data
Dekker, G., 21.11–6
Meteorological archives
Voĭnova, T. A. et al., 21.1–255
Meteorological bulletins
Franchiotti, S., 21.8–14
Meteorological calculation errors
Grushin, S. I., 21.8–15
Meteorological computations
Gandin, L. S., 21.4–6
Meteorological conditions
Deshi, F. et al., 21.5–6
Meteorological conditions–disease
Smith, L. P. et al., 21.9–396
Meteorological conferences
American Meteorological Society, 21.12–2
Brown, R. M., 21.7–26
Colloquim on Spectra of Meteorological Variables, Stockholm, 1969, 21.10–134
Conference on Plan for U. S. Participation in the Global Atmospheric Research Program, Boulder, Colo., Oct. 15–17, 1969, 21.10–16
Dmitrieva-Arrago, L. R., 21.5–7
East African Community, 21.9–5
Germany (Democratic Republic). Meteorologischer Dienst, 21.7–2
Nature [London], 21.4–4
Technical Exchange Conference, 5th Air Force Academy, Colo., 1969, 21.8–8
Verband Deutscher Meteorologischer Gesellschaften, 21.6–5
Meteorological cost/benefit ratios
Ashford, O. M., 21.11–1
Meteorological data
Angola. Serviço Meteorológico, Luanda, 21.10–41
Annuaire Hydrologique de Belgique, 21.1–130
Belgium. Institut Royal Météorologique, 21.8–32; 21.9–35
Expédition Antarctique Belgo-Néerlandaise, 1966, 21.5–81; 21.6–48
Finland. Meteorologiska Centralanstalten, 21.1–131
Garcia, E. et al., 21.6–49
Gherzi, E., 21.1–32
Japan. Meteorological Agency, Tokyo, 21.11–56
Macao. Serviço Meteorológico, 21.9–37
Meteorological data, North Baltic Sea
Hamburg. Seewetteramt, 21.9–179R, –180R
Meteorological data, Portugal
Portugal. Serviço Meteorológico Nacional, 21.11–73R to –76R
Meteorological data, Spain
Spain. Servicio Meteorológico National, 21.11–77R
Meteorological data, Surinam
Surinam. Meteorologische Dienst, 21.10–122R
Meteorological data, Switzerland
Switzerland. Meteorologische Zentralanstalt, 21.11–78R
Meteorological data analyses
Dzholov, G. D. et al., 21.4–508
Kilesnikova, V. N. et al., 21.2–298

Meteorological data–frost damage analysis
Hogg, W. H., 21.8–680
Meteorological data interpolation
Charney, J. et al., 21.5–29
Kaganskiĭ, A. S. et al., 21.1–100
Meteorological data management
Filippov, V. V., 21.9–15
Meteorological data presentation
Franchiotti, S., 21.8–14
Filippov, V. V., 21.9–15
Makhover, Z. M., 21.11–54
Mane, U., 21.9–18
Ryzhikova, S. M. et al., 21.9–33
Symposium on Data Processing for Climatological Purposes, Asheville, N.C., May 13–18, 1968, 21.9–20
Wege, K., 21.7–16
Meteorological data summaries
Gherzi, E., 21.7–33
Lawes, E. F., 21.10–46
Meyer, L. et al., 21.6–53
Scherhag, R. et al., 21.8–35
Meteorological data summary, Greece
Thessalonikē. Panepistēmion. Ergastērion Meteoroloias kai Klimatologias, 21.11–69R
Meteorological data summary, Italy
Milan. Seminario Arcivescovile. Osservatorio di Fisica Terrestre, 21.11–71R
Meteorological data transmission
Canada. Meteorological Branch, 21.1–212
Meteorological diurnal changes
Rybchenko, A. A., 21.2–306
Meteorological economics
Skoda, G., 21.3–28
Meteorological ecosystems
Eddy, A., 21.3–14
Meteorological education
Finch, C. R., 21.3–16
Thompson, O. E., 21.5–21
World Meteorological Organization, 21.5–24
Meteorological education in Hungary
Dobosi, Z. et al., 21.1–64
Meteorological effects on air quality
Jauregui O., E., 21.5–260
Meteorological effects on foot and mouth disease
Wright, P. B., 21.6–661
Meteorological effects on hydrologic research
Storr, D., 21.9–338
Meteorological effects on radar tracking
EG & G, Inc., Boulder, Colo., 21.12–8
Meteorological effects on radio waves
Anastassiades, M. et al., 21.6–253
Beard, C. I. et al., 21.6–191
EG & G, Inc., Boulder, Colo., 21.12–8
Meteorological effects on radioactivity
Rocznik, K., 21.6–254
Meteorological effects on sea level
Izozaki, I., 21.6–322
Meteorological elements
Kagan, R. L., 21.10–22R
Savitskiĭ, G. B., 21.5–18
Meteorological elements variations
Kolesnikova, V. N. et al., 21.2–298
Meteorological equations
Bessemoulin, J., 21.3–6
Meteorological equipment
Mezősi, M., 21.1–165
Meteorological equipment, bibliography
McLean, G., 21.10–66R
Meteorological factors in long distance flights
Crossley, A. F., 21.12–454
Meteorological films
Smith, D. L. et al., 21.7–7
Thompson, O. E., 21.5–21
Meteorological handbook
U. S. Weather Bureau, 21.10–51R
Meteorological instrume
construction
Gershenzon, G. S. et a
21.10–70
Meteorological instrumen
development
Barrell, H., 21.3–172
Sternzat, M. S., 21.9–87
Meteorological instrumen
tation
Facilities for Atmospher
Research [Boulder, Colo.], 21.5–100
Meteorological instrumen
Giraytys, J. et al., 21.4–2
Mezősi, M., 21.1–165
Winter, V. et al., 21.10
367
Meteorological investigations
ESSA [Wash., D. C.], 21.8–1
Meteorological measurement errors
Duchon, C. E., 21.11–65
Halem, M. et al., 21.8–24
Meteorological measurements
Shenderovich, I. M., 21.3
40
Meteorological monographs
Gerhardt, J. R., 21.3–17
Meteorological networks
Deshi, F., 21.5–6
Potter, J. G., 21.10–38
Rusin, N. P., 21.9–73R
Meteorological observatio
at sea
Hamburg. Seewetteramt, 21.9–102R
Meteorological observatio
manual
Canada. Meteorological Branch, 21.9–100R
Spain. Servicio Meteorológico Nacional, 21.9
104R
U. S. Naval Weather Ser vice, Asheville, N.C.
21.9–106R
Meteorological observations
British Antarctic Meteor ological Service, 21.8–3
Ibadan, Nigeria. Univer

sity Coll., Dept. of Geog., 21.3–107
  Macerata, Italy. Osservatorio Meteorologico, 21.1–134
  Milan. Osservatorio Astronomico di Brera, 21.1–135
  Portugal. Serviço Meteorológico Nacional, 21.3–110
  Scherhag, R. et al., 21.7–34
  Singapore. Meteorological Service, 21.1–136

Meteorological observations techniques
  Leningrad. Glavnaia Geofizicheskaia Observatoriia, 21.10–46R
  Rusin, N. P., 21.9–73R

Meteorological observatory sites
  Klemm, F., 21.1–138

Meteorological office, U.K.
  Great Britain. Meteorological Office, 21.9–115R

Meteorological publishing
  Visconti, I. et al., 21.4–25

Meteorological radio wave propagation effects
  Carey, R. B. et al., 21.9–47

Meteorological radioactive tracers
  Prospero, J. M., 21.12–330

Meteorological research
  Abel, R. B., 21.3–766
  Giorgi, M., 21.10–18
  World Meteorological Organization, WMO Bulletin, 21.1–87
  Robinson, G. D., 21.3–23

Meteorological research, NCAR
  National Center for Atmospheric Research, Boulder, Colo., 21.10–53R

Meteorological research facilities
  U. S. National Aeronautics and Space Administration, 21.10–40

Meteorological research in Australia
  Australia. Commonwealth Scientific and Industrial Research Organization, 21.12–15R

Meteorological research in Canada
  Hage, K. D., 21.1–68

Meteorological research in Hungary
  Hungary. Országos Meteorológiai Intézet, 21.9–117R

Meteorological research in Poland
  Michalczewski, J., 21.11–96R

Meteorological research results in Rumania
  Rumania. Institutul Meteorologic, Bucharest, 21.11–99R

Meteorological rocket measurements
  Hirling, G., 21.3–143

Meteorological Rocket Network
  Webb, W. L. (ed.), 21.11–250

Meteorological rockets
  Bollermann, B. et al., 21.3–141 ; 21.11–69
  Japan–U. S. Rocket Project, 21.1–145
  Tulinov, V. G., 21.3–357

Meteorological satellite development
  Nordberg, W., 21.9–60R

Meteorological satellite development in the U. S.
  Nordberg, W., 21.1–154

Meteorological satellite oceanographic data
  Warnecke, G. et al., 21.8–51

Meteorological satellite program
  Bolin, B. et al., 21.9–45

Meteorological satellites
  Hill, H. W. et al., 21.8–45
  Johnson, D. S., 21.8–47
  National Research Council, Wash., D. C., Div. of Engineering, 21.3–156
  Vasil'ev, K. P., 21.3–168

Meteorological sea level effects
  Palmieri, S. et al., 21.7–102

Meteorological services
  Abramov, R. V., 21.3–1
  Armstrong, R. H. et al., 21.3–3
  Ashford, O. M., 21.1–58
  Bernard, E. A., 21.1–60
  Bottari, D., 21.3–8
  Buchinskiĭ, I. E., 21.3–9
  Dřevikovský, A., 21.5–8
  Fedorov, E. K., 21.12–9
  Gibbs, W. J., 21.1–66
  Giovannelli, J. L., 21.1–67
  Ige, G. A., 21.11–10
  Kisin, I. M. et al., 21.3–19
  Mason, B. J., 21.1–71
  Scott, N., 21.1–75
  Seminar on the Role of Meteorological Services, 21.11–14
  Skoda, G., 21.3–28
  Süssenberger, E., 21.1–77
  Tolstikov, E. I., 21.1–78
  White, R. M., 21.1–80
  World Meteorological Organization, WMO Bulletin, 21.1–86

Meteorological services in Africa
  Bernard, E. A., 21.12–5

Meteorological services in Alaska
  Dennett, J. T., 21.10–3

Meteorological services in East Africa
  East African Community. Meteorological Dept., 21.11–42R

Meteorological services in Great Britain
  Great Britain. Meteorological Office, 21.12–17R

Meteorological services in Hungary
  Czelnai, R., 21.12–23R

Meteorological services in Poland
  Mikulski, Z., 21.11–97R

Meteorological simulators
  Clayton, W. H. et al., 21.6–7, –8
  Davis, M. L., 21.6–450

Meteorological sounding systems
  Williamson, L. E., 21.4–19

Meteorological stations
  García, E. et al., 21.6–49

  - *Polar Record* [Cambridge, Eng.], 21.6–47
- **Meteorological statistics**
  - Rousseau, D., 21.3–46
  - Strupczewski, W., 21.3–47
- **Meteorological symposia**
  - Larsen, J. A., 21.12–17
  - Symposium on Data Processing for Climatological Purposes, Asheville, N.C., May 13–18, 1968, 21.9–20
- **Meteorological towers**
  - Godin, J. U., 21.12–82
  - Rijkoort, P. J., 21.12–85
- **Meteorologists**
  - Barad, M. L., 20.1–59
- **Meteorology**
  - Akademiia Nauk SSSR, 21.11–1R
- **Meteorology abstracts**
  - Ulbrich, S., 21.1–79
- **Meteorology and economic development in East Africa**
  - Tewungwa, S., 21.12–23
- **Meteorology and flood forecasting**
  - Krishnamurthy, K. V., 21.11–12
- **Meteorology and man**
  - Ashford, O. M., 21.11–2
- **Meteorology and transport**
  - Bargman, D. J., 21.11–3
- **Meteorology and water resources development**
  - Krishnamurthy, K. V., 21.11–12
- **Meteorology applications in Africa**
  - Gornung, M. B., 21.12–10
- **Meteorology as a career**
  - World Meteorological Organization, 21.12–32R
- **Meteorology–atmospheric chemistry relationships**
  - International Symposium on Atmospheric Trace Constituents and Atmospheric Circulation, Heidelberg, 1969, 21.10–137
- **Meteorology bibliographies**
  - Ulbrich, S., 21.1–79
  - U. S. Air Weather Service. 2nd Weather Wing, 21.7–9
- **Meteorology computer applications**
  - Schanz, P., 21.3–25
- **Meteorology economics**
  - Bottari, D., 21.3–8
- **Meteorology in Africa**
  - Elamly, A. M., 21.11–7
- **Meteorology in atomic energy**
  - Swisher, S. D., 21.7–223
- **Meteorology in Czechoslovakia**
  - Sládek, I., 21.11–100R
- **Meteorology in philately**
  - O'Neill, T. H. R. et al., 21.9–9
- **Meteorology library catalogs**
  - U. S. Environmental Science Services Administration, 21.5–23
- **Meteorology reports**
  - *World Meteorological Organization, WMO Bulletin*, 21.1–88
- **Meteorology textbooks**
  - Day, J. A., 21.10–1
  - Gural'ink, I. I. et al., 21.5–9
  - Jensen, J. P., 21.9–7
  - Longley, R. W., 21.12–19
  - McIntosh, D. H. et al., 21.6–3
  - Miller, A. et al., 21.10–8
  - Milosavljevie, M., 21.8–5
  - Petterssen, S., 21.1–15
- **Meteorology yearbooks**
  - Austria. Zentralanstalt für Meteorologie und Geodynamik, 21.1–37
  - Switzerland. Meteorologische Zentralanstalt, 21.3–102
- **Methane in Jupiter atmosphere**
  - Margolis, J. S. et al., 21.7–760; 21.11–589
- **Methane in sea water**
  - Swinnerton, J. W. et al., 21.5–231
- **Methane in the atmosphere**
  - Swinnerton, J. W. et al., 21.5–231
- **Microbarograph data**
  - MacKinnon, R. F., 21.1–472
- **Microbarographic oscillation–geomagnetic activity relationships**
  - Sachdev, R. N., 21.7–462
- **Microbarographs**
  - Tolstoy, I. et al., 21.6–78
- **Microclimate**
  - Forest Microclimate Symposium, 3rd, Kananaski Forest Experiment Station, 21.12–565
- **Microclimate, Japan**
  - Furuta, A., 21.10–95R
- **Microclimate and bioclimatology**
  - Shpilevskiĭ, E. M., 21.9–379
- **Microclimate irrigation effects**
  - Sambikin, M. M. et al., 21.4–334
- **Microclimate of Baneasa lake shore**
  - Dobrea, I., 21.12–564
- **Microclimate of greenhouses**
  - Manescu, B., 21.12–566
- **Microclimate–temperature influences**
  - Mishchenko, Z. A., 21.7–429
- **Microclimatic influences on plants**
  - Gannutz, T. P., 21.10–455
- **Microclimatic investigations**
  - Romanova, E. N., 21.6–650
- **Microclimatological instruments**
  - Savin, St., 21.5–118
- **Microclimatological observations**
  - Jakel, E. R., 21.9–380
- **Microclimatological research**
  - Gol'tsberg, I. A., 21.9–36R
- **Microfilming**
  - Stegall, G. E., 21.9–34
- **Micrometeorite measurements**
  - Jennison, R. C., 21.12–613
  - Konstantinov, B. P., 21.12–614
  - Lindblad, B. A., 21.8–584
  - Nilsson, C. S., 21.11–602
  - Skrivanek, R. A. et al., 21.10–640

Micrometeorite observation techniques
Hodge, P. W. et al., 21.9–519
Micrometeorological data processing
Brown, K. W. et al., 21.9–30
Micrometeorological equipment
Leonard, R. E. et al., 21.3–171
Micrometeorological instruments
Bradley, E. F., 21.3–192
Lourence, F. J. et al., 21.4–332
Nickola, P. W., 21.12–87
Sasyo, Y., 21.5–131
Micrometeorological recording equipment
Ratcliffe, C. A., 21.12–84
Micrometeorology
Wardle, P. A., 21.8–686
Microorganisms growth
Evenshteĭn, Z. M., 21.4–579
Microorganisms in soil
Visser, S. A., 21.4–399
Microscale circulation patterns
Rapp, R. R., 21.11–249
Microsphere generator
Facilities for Atmospheric Research [Boulder, Colo.], 21.6–125
Microturbulence near the ground
Perrier, A., 21.3–592
Microwave emission from atmosphere
Shifrin, K. S., 21.9–77R
Microwave propagation
Hebert, J. O., Jr. et al., 21.4–77
Microwave radiation
Penzias, A. A. et al., 21.4–469
Microwave radiation from clouds
Keeney, J., 21.7–722
Microwave radiation in the atmosphere
Leningrad. Glavnaia Geofizicheskaia Observatoriia, 21.9–54R
Microwave radiometers
Mount, W. D., 21.11–318
Rabinovich, Iu. I., 21.9–65R
Welch, W. J., 21.9–28
Microwave radiometric probing of clouds
Dombkovskaia, E. P., 21.6–582
Microwave radiometric temperatures
Rabinovich, Iu. I., 21.4–181
Microwave range measurement errors
Janes, H. B. et al., 21.5–358
Microwave scattering
Beard, C. I. et al., 21.6–191
Microwave techniques
Beard, C. I., 21.6–33
Birkemeier, W. P., 21.6–34
Fischbach, F. F. et al., 21.6–21
Graves, M. E. et al., 21.2–21
Paris, J. F., 21.7–25
Shifrin, K. S. et al., 21.3–82; 21.9–27
Staelin, D. H., 21.6–36
Strohbehn, J. W., 21.6–37
Welch, W. J., 21.9–28
Westwater, E. R. et al., 21.6–38
Microwave temperatures of Mercury
Morrison, D., 21.8–733
Mie theory
Kattawar, G. W., 21.3–509
Military climatology
Thompson, W. F., 21.6–635
U. S. Army Tropic Test Center, Fort Clayton, C.Z., 21.5–658
Military forecasting
Keegan, T. J., 21.7–76
Military meteorological services
Cummings, R. L., 21.1–63
Mineral water composition
Protopopescu-Pache, E. I. et al., 21.1–784
Minimum river runoff
Drozd, N. I. et al., 21.4–581
Kurdov, A. G., 21.4–520
Petersen, Z. I., 21.8–798
Minimum road temperature forecasting
Parrey, G. E., 21.11–327
Minimum runoff
Klimova, V. V., 21.2–543
Mukhin, V. M., 21.2–545
Minimum temperature distribution
Vasil'eva, L. G., 21.7–441
Minimum temperature forecast
Klein, W. H., 21.12–143
Minimum temperature forecasting
Klein, W. H. et al., 21.7–92
Minimum temperature forecasting aids
Shmakova, V. S., 21.1–249
Minimum temperature–spring frost duration relationships
Cochrane, J., 21.8–319
Minimum temperatures
Khvostova, R. N., 21.1–211
Pack, A. B., 21.7–438
Mining–groundwater flow effects
Mather, J. D. et al., 21.6–773
Missile generated noise
Kaschak, G. R., 21.2–390
Mist
Eldridge, R. G., 21.3–648
Mixed layer depth
Ingham, M. C., 21.2–749
Mixing length
Kurosaki, A., 21.5–386
Model atmospheres
Wallio, H. A. et al., 21.10–622
Modification of microclimate
Dobrea, I., 21.12–564
Moire fringes
Baker, D. J., 21.9–683
Moisture balance
Terjung, W. H., 21.6–666; 21.11–223
Moisture deficiency
Mel'nik, Iu. S. et al., 21.9–273

Moisture deficiency calculation
Mel'nik, Iu. S. et al., 21.9–273
Moisture effects on plants
Leone, I. A. et al., 21.5–226
Moisture exchange sea-air
Sheremetevskaia, O. I., 21.2–776
Moisture flux
Elagina, L. G., 21.8–347
Hastenrath, S., 21.7–273
Kornienko, V. I., 21.4–248
Readings, C. J. et al., 21.10–330
Moisture measurement instruments
Huxley, P. A., 21.10–78
Moisture pollution from nuclear plants
Hewson, E. W., 21.8–345
Moisture stress
Gates, C. T., 21.5–547
Moisture transfer
Levenko, A. A., 21.10–31R
Mkhitarian, A. M., 21.4–204
Ponomarenko, I. N., 21.3–652
Moisture transport
Kornienko, V. I., 21.4–248
Lettau, B., 21.4–251
Molecular band spectra
Rodgers, C. D., 21.1–451
Molecular hydrogen
Birnbaum, A., 21.6–696
Dalgarno, A. et al., 21.5–703
Molecular physics
Wolff, H., 21.6–816
Molecular structure
Hamilton, W. C., 21.6–806
Rabideau, S. W. et al., 21.6–813
Siksna, R., 21.8–602
Momentum balance
Murgatroyd, R. J., 21.1–392
Momentum flux
Readings, C. J. et al., 21.10–330
Momentum transfer
Matsumoto, S. et al., 21.5–402
Swinbank, W. C., 21.1–499
Momentum transport
Bretherton, F. P., 21.1–388; 21.6–263
Macdonald, N. J., 21.3–433
Monochromatic auroral arc–visible aurora relationships
Ichikawa, T., 21.11–515
Monomolecular film on water
Garrett, W. D., 21.7–850
Monomolecular films for evaporation suppression
Pushkarev, V. F. et al., 21.6–545
Monsoon circulation
Rama, 21.3–611
Rangarajan, C., 21.12–349
Saha, K., 21.3–612
Sajnani, P. P., 21.7–497
Monsoon circulation theories
Rao, Y. P. et al., 21.10–336
Sankar Rao, M. et al., 21.5–404
Monsoon climates
Matin, A., 21.8–452
Monsoon–convective activity relationships
Harris, B. E., 21.5–533
Monsoon depressions
Desai, B. N., 21.7–493
Mukherjee, A. K. et al., 21.6–330
Monsoon ecoclimates
Whyte, R. O., 21.6–499
Monsoon effects
Duing, W. et al., 21.5–512
Monsoon floods
India. Meteorological Dept., 21.7–494
Monsoon inversions
Desai, B. N., 21.2–106
Monsoon parameters
Danielson, E. F., et al., 21.5–510
Monsoon rainfall
India. Meteorological Dept., 21.7–494
Kulkarni, N. S. et al., 21.8–397
Pedgley, D. E., 21.7–610
Roy, A. K., 21.7–590
Saha, A. T., 21.10–393
Monsoon rainfall forecasting
Gichuiya, S. N., 21.12–
Mukherjee, B. K., 21
537
Monsoon season
Kurashima, A., 21.1–512
Monsoon squalls
Narayanan, V., 21.7–495
Monsoon tropopause
Ramanadham, R. et
21.6–197
Monsoon–upper air wind relationships
Ramamurthi, K. M., 21
496
Monsoon weather summaries
India. Meteorological Dept., 21.7–494
Monsoon winds
Duing, W., 21.4–704
Monte Carlo method
Diskin, M. H., 21.5–61
Golubitskiĭ, B. M. et
21.4–666; 21.5–357
Wells, M. B. et al., 21.2
Monte Carlo technique
Kattawar, G. W. et
21.3–509
Monthly circulation patterns
Andrews, J. F., 21.5–6
21.7–31
Dickson, R. R., 21.7–32
Gouws, V. C., 21.5–65
Green, R. A., 21.5–15
21.10–44
Posey, J. W., 21.6–5
21.10–47
Stark, L. P., 21.1–13
21.8–36
Wagner, A. J., 21.5–151
Monthly forecasts
Ur'eva, B. R., 21.3–284
Monthly mean temperatu calculation
Farkas, A. et al., 21.9–2
Monthly meteorological data
Agence pour la Securi de la Navigation Aér enne en Afrique et Madagascar, 21.3–103
Monthly precipitation forecasting
Bagrov, N. A., 21.12–16
Murray, R., 21.3–260

Philpot, J. W. et al., 21.8–105
Monthly precipitation statistics
Polishchuk, A. I., 21.9–312
Monthly sea temperature charts
Walford, I. A. et al., 21.1–44
Monthly weather forecasts
Drogaĭtsev, D. A., 21.3–278
Kryndin, A. N. et al., 21.3–273
Monthly weather reports
Andrews, J. F., 21.5–64; 21.7–31
Dickson, R. R., 21.7–32
Gouws, V. C., 21.5–65
Green, R. A., 21.10–44
Posey, J. W., 21.6–50; 21.10–47
Stark, L. P., 21.1–137; 21.8–36
Monthly weather summaries
France. Territoire Français des Afars et des Issas, 21.10–43
Moon radio emissions
Losovskiĭ, B. Ia., 21.4–459
Moon's figure
Goudas, C. L., 21.11–568
Makarenko, N. L., 21.4–480
Morphology of rivers
Dury, G. H., 21.1–800
Iarnykh, N. A., 21.12–711
Latif, A., 21.10–750
Popescu, N., 21.11–725
Razvan, E., 21.12–707
Mortality due to weather
Cressman, G. P., 21.7–283
Krasnow, S., 21.10–462
Mortality from weather
Momiyama, M. et al., 21.9–388, –389
U. S. Environmental Science Services Administration, 21.2–192
Motion equations
Deardorff, J. W., 21.1–359
Schubert, G., 21.1–356
Zeng, Q. Z., 21.1–364
Mountain and valley winds
Maeder, F., 21.3–605
Mendonca, B. G., 21.5–508
Schram, K., 21.5–509
Tyson, P. D., 21.10–335
Mountain bioclimatology
Berry, P. R., 21.8–534
Halhuber, M. J., 21.8–543
Höchli, M., 21.8–544
Johnson, M., 21.2–323
Luft, U. C., 21.2–313
Schmidt-Kessen, W., 21.8–557
Zuidema, P., 21.8–561
Mountain catchment runoff
Denisov, V. M., 21.9–583
Mountain climates
Hess, M., 21.7–684
Taylor-Barge, B., 21.7–686
Mountain climatic data
Dannevig, P., 21.8–513
Held, G., 21.8–530
Mountain climatology
Davitaia, F. F., 21.11–464
Marcus, M. G., 21.2–314
Mountain-free atmosphere comparison
Olejnik, S., 21.8–531
Zakhariev, V., 21.7–519
Mountain glaciation
Govorukha, L. S., 21.7–822
Mountain–glacier regions
Golubev, G. N., 21.1–644
Mountain mesoclimatology
Obrębska-Starklowa, B., 21.6–649
Mountain meteorology
Chishlom, J. et al., 21.6–151
Icefield Ranges Research Project, 21.9–381
Matsuoka, T., 21.9–320
Wood, W. A., 21.9–382
Mountain meteorology conferences
Held, G., 21.8–2
Mountain microclimatology
Obrębska-Starklowa, B., 21.6–649
Mountain observations
Reiter, R. et al., 21.1–126
Mountain rainfall
Grant, P. J., 21.7–601
Mountain river runoff
Befani, N. F., 21.2–542
Mountain rivers
Bolesta, W., 21.2–578
Egiazarov, I. V. et al., 21.9–594
Golubstov, V. V., 21.7–811
Semenova, Z. D., 21.7–642
Mountain runoff
Befani, A. N., 21.2–547
Ishihara, Y., 21.11–425
Makkaveev, N. I. et al., 21.3–743
Sosedov, I. S., 21.3–663
Mountain slope temperatures
Bergen, J. D., 21.11–302
Mountain snow cover
Abal'ian, T. S. et al., 21.3–667
Lauscher, Friedrich, 21.4–293
Loup, J., 21.7–631
Moskalev, Iu. D., 21.11–394
Sosedov, I. S. et al., 21.3–669
Mountain stream hydrology
Denisov, V. M., 21.9–583
Mountain temperatures
Held, G., 21.8–530
Marcus, M. G., 21.7–428
Peterson, E. B., 21.4–174
Mountain wave observations
Reynolds, R. D., 21.6–531
Mountain wave theories
Scorer, R. S., 21.6–281, –282
Mountain waves
Berkshire, F. H., 21.6–525
Eliassen, A., 21.5–536
Fischer, G., 21.6–526
Lacaze, J., 21.5–539
Lilly, D. K., 21.7–516
Onishi, G., 21.6–530
Mountain winds
Held, G., 21.8–530
Serbu, C., 21.3–608
Tyson, P. D., 21.12–478
Mountains of Asia
Matsuoka, T., 21.9–320
Mudflow flood
Bashlavin, D. K., 21.11–429
Mudflow forecasting
Gerasimov, V. A., 21.9–667
Zak, A. I., 21.12–169

Mudflows
  Dimaksian, A. M., 21.5–746
Mudflows in rivers of Transcaucasia
  Zakhashvili, M. A., 21.11–121
Mulching effects on plants
  Jones, J. N., 21.7–652
Mulching effects on soil moisture
  Jones, J. N., 21.7–652
Mulching effects on soil temperature
  Adamenko, V. N., 21.6–467
Mulching–soil moisture effects
  Acharya, C. L. et al., 21.5–552
  Kowsar, A., 21.11–323
  Murakami, R., 21.11–439
Mulching–soil temperature effects
  Kowsar, A., 21.11–323
Mulinet Glacier
  Vivian, R., 21.1–761
Multanovskiĭ's method of long-range forecasting
  Aristov, N. A., 21.11–124
Multiple lightning strokes
  Himley, R. O., 21.2–383
Multiple scattering
  Danzer, K. H. et al., 21.4–136
  Hansen, J. E., 21.7–565
  Uesugi, A., 21.6–689
Multiplexer circuits
  Peck, R. L., 21.5–146
Multispectral data applications
  Symposium on Remote Sensing of Environment, 1969, 21.10–71
Muon intensities
  Jeffery, P. M., 21.5–224
Mythology
  Hughes, P., 21.8–3

N

Nacreous cloud formation
  Hesstvedt, E., 21.11–496
Nacreous clouds
  Sharpe, J. M., Jr., 21.11–497
National Center for Atmospheric Research, High Altitude Observatory
  Newkirk, G., Jr. et al., 21.5–37
National Data Buoy Systems
  Clem, L. H. et al., 21.10–19
  Hodgman, J. A., 21.7–37
  Jacobs, C. A. et al., 21.8–822
  Jenkins, C. F. et al., 21.8–821
  Morrill, P. A. et al., 21.10–84
  National Data Buoy Systems Scientific Advisory Meeting, 1st, New London, Conn., 1969, 21.9–41
  Northrop, G. M., 21.8–823
  Rinehart, V. W., 21.12–59
National Oceanographic Data Center, Washington, D. C.
  Schuyler, S., 21.6–827
  U. S. National Oceanographic Data Center, 21.2–659
National Oceanographic Instrumentation Center, Washington, D. C.
  U. S. National Oceanographic Instrumentation Center, Wash., D. C., 21.2–692
Natural gases tracers
  Blanc, D. et al., 21.3–398
Natural radioactivity measurements
  Van Cauwenberghe, A. R. et al., 21.6–255; 21.7–220
Natural radioactivity variations
  Kopcewicz, T., 21.7–222
Natural resources conferences
  Intergovernmental Conference of Experts on the Scientific Basis for Rational Use and Conservation of the Resources of the Biosphere, Paris, 21.12–590
Natural seasons
  Maejima, I., 21.10–97R
Natural synoptic seasons
  Sevalkina, N. A., 21.9–4
  Zakharova, N. M., 21.
    410
Natural water composition
  Osipova, T. I. et al., 21.
    748
Naval Oceanographic M
teorological Automatic D
vice (NOMAD)
  Marcus, S. O., Jr., 21.5-
Navigation data, Great Lakes
  Schwerdt, R. W., 21.
    244R
Navigational aids
  Ehrlich, E., 21.2–395
  Roese, D. W., 21.2–396
Near infrared night sky emission
  Harwit, M., 21.7–352
Near infrared radiation
  Murai, K., 21.6–372
Near ultraviolet flux
  Heath, D. F., 21.5–446
Negative ions
  Ivanov-Kholodnyĭ, G.
    21.4–65
  Tiernan, T. O. et al., 21.
    356
Neoprene balloons
  Welt, R. M., 21.7–39
Nephanalyses
  Alexander, R. M., 21.2–
  Bogomolov, O. S., 21.1
    6R
  Chang, D. T. et al., 21.
    414
  Clark, J. R. et al., 21.5–
  Cooley, D. S. et al., 21.
    130
  Dean, G. A., 21.4–270
  Fujita, T., 21.6–578
  Oliver, V. J. et al., 21.8–
  Streten, N. A., 21.3–164
  Viezee, W. et al., 21.2–38
  Williams, J. T., Jr., 21.
    169
Nephelometers
  Charlson, R. J. et a
    21.10–87; 21.12–495
  Polevitskiĭ, K. K. et a
    21.8–76
Neptune's atmospheric composition
  McElroy, M. B., 21.5–71

Net radiation
Gay, L. W., 21.3–501
Net radiation distribution
Terjung, W. H. et al., 21.4–133
Net radiation–solar radiation relationships
Davies, J. A. et al., 21.6–354
Net radiometers
Yee, L., 21.11–116
Neutral lines–flare productivity relationships
De Peralta, M. T. C. et al., 21.10–654
Neutrino detection
Pomanskiĭ, A. A., 21.10–304
Neutrino flux measurements
Zatsepin, G. T. et al., 21.8–310
Neutron moisture meters
Jones, O. R. et al., 21.10–729
Neutron monitors
Blokh, Ia. L., 21.7–397
Night airglow distribution
Eather, R. H., 21.7–350
Night airglow emission
Dalgarno, A., 21.7–329
Hernandez, G., 21.1–467
Smith, L. L., 21.1–470
Swider, W., Jr., 21.7–361
Weill, G. M., 21.7–362
Night airglow excitation
Hernandez, G., 21.1–467
Thomas, L. et al., 21.6–382
Night airglow–geomagnetic relationships
Cogger, L. L. et al., 21.6–386
Shefov, N. N., 21.6–391
Night airglow infrared spectrum
Gush, H. P., 21.8–247
Night airglow intensity
Dachs, J., 21.3–518
Feldman, P. D., 21.3–519
Gadsden, M. et al., 21.3–520
Huppi, E. R. et al., 21.7–354
Kariagina, Z. V. et al., 21.6–389
Krasnopol'skiĭ, V. A., 21.3–521
Smith, R. W., 21.6–394
Night airglow intensity distribution
Fishkova, L. M., 21.11–287
Night airglow intensity enhancement
Carman, E. H. et al., 21.8–245
Evans, J. V. et al., 21.8–173
Ingham, M. F., 21.7–355
Okuda, M. et al., 21.7–359; 21.8–251
Smith, R. W., 21.8–253
Night airglow intensity measurements
Dachs, J., 21.6–387
Kulkarni, P. V., 21.8–250
Night airglow intensity variations
Dachs, J., 21.6–388
Shefov, N. N. et al., 21.9–219
Night airglow–ionosphere relationships
Thomas, L., 21.8–205
Weill, G. M., 21.7–362
Night airglow observation
Roach, F. E. et al., 21.9–218
Night airglow photometers
Carman, E. H. et al., 21.3–517
Kulkarni, P. V., 21.8–250
Night airglow photometry
Dachs, J., 21.6–387
Warnecke, G. et al., 21.5–458
Night airglow physics
Silverman, S. M., 21.6–393
Night airglow research
Silverman, S. M., 21.6–393
Weill, G., 21.3–524
Night airglow spectra
Degen, V., 21.11–286
Lowe, R. P., 21.7–357
Tuan, T. F., 21.3–522
Night airglow studies
Shapiro, R., 21.8–252
Night airglow temperatures
Lowe, R. P., 21.7–357
Nasyrov, G. A., 21.11–288
Shepherd, G. G., 21.12–38
Night airglow theories
Hesstvedt, E., 21.7–353
Lagos, C. P., 21.7–356
Night sky brightness
Dimov, N. A. et al., 21.7–349
Night sky emissions
Houck, J. R. et al., 21.10–278
Reay, N. K., 21.1–469
Night sky Lyman-alpha radiation
Ingham, M. F., 21.8–249
Night sky radiation
Harwit, M., 21.7–352
Houck, J. R. et al., 21.8–248
Night sky radiometer
Pardy, D., 21.2–29
Night sky spectra variations
Weill, G., 21.11–34R
Nighttime D-layer
Thomas, L. et al., 21.6–241
Nighttime F-layer
Rüster, R., 21.9–179
Nighttime sporadic E-layer (Es)
Smith, L. G., 21.10–192
Nitrate–phosphate in seawater
Stefansson, W., 21.3–786
Nitric oxide in upper atmosphere
Tisone, G. C., 21.11–212
Nitric oxide measurements
Carpenter, R. O. et al., 21.9–117
Nitrogen bands
O'Neil, R. et al., 21.1–468
Nitrogen fertilization effects
Kulik, M. S., 21.1–653
Luebs, R. E. et al., 21.8–679
Nitrogen in coastal waters
Stickney, A. P., 21.2–721
Nitrogen in lake water
Brezonik, P. L. et al., 21.10–763
Nitrogen oxides in atmosphere
Schuck, E. A., 21.12–257
Nitrogen solubility in seawater
Murray, C. N. et al., 21.4–681

Nitrous oxide in atmosphere
  Goody, R., 21.3–318
Noctilucent cloud data
  Villmann, Ch. I., 21.8–589
Noctilucent cloud formation
  Christie, A. D., 21.8–579
  Hesstvedt, E., 21.8–582; 21.11–496
  Witt, G., 21.7–709
Noctilucent cloud frequencies
  Schröder, W., 21.8–587
Noctilucent cloud height photogrammetry
  Novozhilov, N. I., 21.8–585
Noctilucent cloud models
  Christie, A. D., 21.8–579
Noctilucent cloud morphology
  Grishin, I. N., 21.10–484
Noctilucent cloud movement
  Christie, A. D. et al., 21.7–707
Noctilucent cloud observations
  Bakanov, V. A. et al., 21.10–482
  Chichmar', V. V., 21.10–483
  Christie, A. D., 21.11–498
  Paton, J., 21.9–420
  Schröder, W., 21.7–708
  Voĭnov, S. S. et al., 21.10–486
Noctilucent cloud origin
  Soberman, R. K., 21.8–588
Noctilucent cloud particle sampling
  Skrivanek, R. S. A., 21.11–500
Noctilucent cloud particles
  Hesstvedt, E., 21.8–582
  Isono, K. et al., 21.5–583
  Lindblad, B. A., 21.8–584
  Soberman, R. K., 21.8–588
  Witt, G., 21.7–709
Noctilucent cloud research
  Hesstvedt, E., 21.8–581
  Schröder, W., 21.11–499
Noctilucent cloud structure
  Christie, A. D. et al., 21.7–707
Noctilucent cloud theories
  Hesstvedt, E., 21.8–581
  Schröder, W., 21.8–587
Noctilucent cloud visibility
  Dietze, G., 21.8–580
  Fesenkov, V. G., 21.9–26R
Noctilucent clouds
  Maeda, K., 21.3–352
Noctilucent clouds and auroras
  Schröder, W., 21.2–347
Noctilucent clouds–mesospheric circulation relationships
  Schröder, W., 21.8–586
Noctilucent clouds–stratospheric circulation relationships
  Christie, A. D., 21.11–498
Nocturnal F-layer
  Rodionova, V. T., 21.11–207
Nocturnal F2-region
  Besprozvannaia, A. S., 21.10–154
  Fatkullin, M. N., 21.5–345
Nocturnal ionosphere
  Burgess, B. et al., 21.8–168
Nocturnal minimum temperature forecasting
  Cordon, J. et al., 21.9–87
  Longhetto, A., 21.11–127
Nocturnal minimum temperatures
  Pack, A. B., 21.7–438
  Ritchie, W. G., 21.7–439
Nocturnal radiation
  Bergen, J. D., 21.10–271
Nocturnal temperature distribution
  Tamiya, H., 21.8–314
Nocturnal temperature effects on cotton growth
  Gipson, J. R. et al., 21.6–427
Nocturnal temperature forecasting
  Zdunkowski, W. G. et al., 21.7–93
Nocturnal temperature inversions
  Pribis, J., 21.2–196
Nocturnal temperatures
  Bergen, J. D., 21.11–302
  Clarke, J. F., 21.11–482
Nocturnal thunderstorm formation
  Cooke, L. T., 21.4–115
Nocturnal urban layer
  Clarke, J. F., 21.11–482
Nocturnal winds
  Clarke, J. F., 21.11–482
Nomograms
  Antonov, V. S. et al., 21.4–279
  Miara, K., 21.7–255
  Nenov, I., 21.10–436
  Olintseva-Nebrat, G. G., 21.9–253
Nonhomogeneous diffusion equations
  Kochina, N. N., 21.5–364
Nonirrigated sod
  Baier, W., 21.7–649
Nonlinear equations
  Robert, A. J. et al., 21.5–365
Nonlinear solutions
  Blinova, E. N., 21.3–428; 21.7–261
Nonstationary oceanographic models
  Fel'zenbaum, A. I., 21.4–692
Nonthermal heating in solar wind
  Hundhausen, A. J., 21.10–283
North American rivers
  Carlston, C. W., 21.2–579
  Thompson, H. A., 21.4–318
North American rivers and basins
  U. S. Corps of Engineers, 21.4–585
North Atlantic pressure pattern
  Sachse, K., 21.11–259
North Atlantic synoptic processes
  Kryndin, A. N., 21.9–407
North–south asymmetry
  Maris, G. et al., 21.10–657
Northern Hemisphere circulation
  Boĭko, A. P. et al., 21.3–429
  Dzerdzeevskiĭ, B. L., 21.1–378
  Hastenrath, S., 21.11–244
  Kato, H., 21.11–246

Matsukura, H., 21.10–470
Niketta, D., 21.4–92
Sleptsov-Shevievich, B. A., 21.2–90
Zverev, N. I., 21.3–440

Novosibirsk reservoir
Suslova, L. V., 21.3–570

Nuclear bursts–ionosphere effects
U. S. Library of Congress. ATD Report, 21.5–214

Nuclear desalting plant
Holtom, H. T., 21.8–834

Nuclear explosion atmospheric effects
Olsen, R., 21.1–338

Nuclear explosion detection
Barasch, G. E., 21.8–620

Nuclear explosion effects
Armstrong, R. H. et al., 21.3–3

Nuclear explosion effects on ionosphere
Baker, D. M., 21.5–337
Kozlov, S. I., 21.9–173

Nuclear explosion effects on radiation belts
Cladis, J. B., 21.11–290

Nuclear explosion–ionosphere effects
Cherkas, V. I., 21.5–341
Erokhin, Iu. G. et al., 21.9–158
Fehr, U., 21.9–160
Greene, J. S., Jr., 21.5–348
Jusick, A. T. et al., 21.8–183

Nuclear explosion–upper atmosphere effects
Fehr, U., 21.9–160

Nuclear explosion waves
Knabe, W. E. et al., 21.7–727
MacKinnon, R. F., 21.1–472
Meecham, W. C., 21.8–661
Pierce, A. D., 21.5–682
Yamamoto, R., 21.7–729

Nuclear industry
Cottrell, W. B., 21.5–360; 21.8–687

Nuclear power plants
Cupka, S. et al., 21.1–347
Hewson, E. W., 21.8–345
Lowry, W. P., 21.8–362
Polarforschung [Kiel], 21.1–125

Nuclear probes
Aditya, P. K. et al., 21.3–208

Nuclear reactor accidents
Cooper, R. E. et al., 21.10–212

Nuclear reactor effluent dispersion
Swisher, S. D., 21.7–223

Nuclear test radioactive fallout
Brendakov, V. F. et al., 21.1–340

Nucleating agents
Blain, D. N. et al., 21.3–308
Smith, A., Jr., 21.1–564

Nucleating material delivery
Walser, J. T., 21.11–142

Nucleation conferences
Skywater Conference, 1st, Denver, Colo., July 10–12, 1967, 21.4–266

Nucleation mechanisms
Schuster, B. G., 21.2–249

Nucleation processes
Berg, T. G. et al., 21.2–364
Bolander, R. W., 21.12–493
Dingle, A. N., 21.12–396
Fletcher, N. H., 21.6–556
Fukuta, N., 21.5–572
Gokhale, N., 21.7–545; 21.12–498
Mohnen, V. A., 21.12–504
St. Amand, P., 21.6–562

Nucleation theories
Bolander, R. W., 21.12–493

Nuclei count
Kapoor, R. K. et al., 21.9–285
Twomey, S., 21.1–568

Nuclei counters
Carnuth, W., 21.10–86

Nuclei distribution
Twomey, S., 21.1–568

Nuclei humidity effects
Kasten, F., 21.5–675

Nuclei on sea coast
Blanchard, D. C., 21.6–567

Nuclei origin
Blanchard, D. C., 21.6–567

Nuclei size measurement methods
Allee, P. A., 21.12–509

Nuclei sources
Hobbs, P. V. et al., 21.6–569
Twomey, S., 21.1–568; 21.10–366

Numerical analysis
Morford, D. R., 21.3–227
Sasaki, Y., 21.3–246

Numerical calculations
Romov, A. I., 21.3–455

Numerical cloud forecasting
Burtsev, A. I., 21.8–86

Numerical cloudiness forecasting
Jarvis, E. C. et al., 21.4–28

Numerical extended forecasting
Mashkovich, S. A., 21.1–246

Numerical 500-mb analysis
Glahn, H. R. et al., 21.5–185
Zin'kovskaia, T. S., 21.5–186

Numerical 500-mb forecasting
Bagrov, N. A. et al., 21.8–108
Speich, J., 21.7–104
Vekova, N., 21.1–230

Numerical flood forecasting
Befani, N. F., 21.2–542

Numerical forecast verification
Burtsev, A. I., 21.8–85
Van Galen, J., 21.12–174

Numerical forecasting
Atkinson, B. W., 21.6–127
Besleaga, N., 21.3–228
Bessemoulin, J., 21.3–6
Blinova, E. N., 21.3–282
Burtsev, A. I., 21.8–86
Fischer, G., 21.6–526
Grammeltvedt, A., 21.1–219
Haltiner, G. J., 21.3–233
Houghton, D. et al., 21.3–234
Koss, W. J., 21.9–81
Kostiukov, V. V. et al., 21.3–235
Lorenz, E. N., 21.5–167; 21.8–113

- Nitta, T., 21.3–239, –240
- Renard, R. J., 21.3–242
- Rousseau, D., 21.7–230
- Sadourny, R. et al., 21.3–243, –244
- Sasaki, Y., 21.9–204
- Smagorinsky, J., 21.3–283
- Spar, J., 21.5–175
- Straede, J., 21.5–176

Numerical forecasting accuracy
- Baumhefner, D. P., 21.7–83
- Gandin, L. S. et al., 21.3–293
- Gleeson, T. A., 21.8–112

Numerical forecasting conferences
- Dobryshman, E. M. et al., 21.3–230
- Jenssen, M. J. D., 21.8–94

Numerical forecasting data requirements
- Gandin, L. S., 21.9–16

Numerical forecasting errors
- Alaka, M. A. et al., 21.5–157
- Fawcett, E. B., 21.3–231
- Iudin, M. I. et al., 21.5–161
- Koss, W. J., 21.9–81
- Serra, A., 21.12–134
- Thompson, P. D., 21.3–250
- Vekova, N., 21.1–230

Numerical forecasting evaluation
- Benwell, G. R. R. et al., 21.1–215
- Chernova, V. F. et al., 21.1–217
- Gandin, L. S. et al., 21.6–147
- Kesel, P. G., 21.1–221
- McDonell, J. E. et al., 21.1–223
- Mashkovich, S. A., 21.1–246
- Renard, R. J., 21.1–225

Numerical forecasting equations
- Clayton, W. H. et al., 21.7–84
- Gavrilin, B. L. et al., 21.6–275
- Hinkelmann, K., 21.8–92
- Marchuk, G. I. et al., 21.5–168
- Mathur, M. B., 21.7–88
- Roberts, C. F., 21.5–173
- Shuman, F. G. et al., 21.8–101
- Wang, C. H., 21.1–231
- Trosnikov, I. V., 21.1–229

Numerical forecasting in tropical regions
- Freeman, J. C., 21.12–130
- Krishnamurti, T. N., 21.5–164

Numerical forecasting models
- Atkins, M. J., 21.11–109
- Bambo, K., 21.5–159
- Baumhefner, D. P., 21.7–83
- Belousov, S. L., 21.8–83
- Benwell, G. R. R. et al., 21.1–215, –216
- Burtsev, A. I., 21.8–85
- Bushby, F. H., 21.3–228
- Bykov, V. V., 21.8–88
- Cooley, D. S., 21.2–41
- Danforth, W. L. et al., 21.1–218
- Doos, B. R., 21.8–89, –90
- Gerrity, J. P., Jr. et al., 21.3–232; 21.12–131
- Glahn, H. R. et al., 21.5–160
- Haltiner, G. J., 21.3–233
- Kesel, P. G., 21.1–221
- Knighting, E., 21.8–95
- Krishnamurti, T. N., 21.5–164
- McDonell, J. E. et al., 21.1–223
- Magata, M., 21.5–541
- Mathur, M. B., 21.7–88
- Newman, R. L., 21.3–238
- Nitta, T., 21.3–240
- Okamura, Y., 21.3–241
- Okland, H., 21.5–170
- Ped', D. A., 21.12–368
- Reiser, H., 21.5–172
- Roberts, C. F., 21.5–173
- Rousseau, D., 21.6–134, –135
- Sadkov, V. P., 21.8–97
- Sankar Rao, M., 21.3–245
- Serra, A., 21.12–134
- Sitnikov, I. G. et al., 21.1–226
- Shuman, F. et al., 21.8–98, –99, –109
- Vekova, N., 21.1–230
- Vulis, I. L. et al., 21.3–251
- Walton, J. R., 21.5–179
- Wang, H. H. et al., 21.5–180
- Willis, P. T., 21.12–136

Numerical forecasting problems
- Knighting, E., 21.8–95

Numerical forecasting progress
- Shuman, F. G., 21.7–89

Numerical forecasting seminars
- World Meteorological Organization, 21.8–104

Numerical forecasting symposia
- Symposium on Numerical Weather Prediction, Tokyo, 21.5–177

Numerical forecasting techniques
- Boville, S., 21.12–127
- Clayton, W. H. et al., 21.7–84
- Dixon, R., 21.7–85
- Doos, B. R., 21.8–89
- Dubov, A. S., 21.9–23R
- Epstein, E. S., 21.12–129
- Godev, N., 21.12–132
- Iudin, M. I., 21.8–93
- Jenssen, D. et al., 21.5–162
- Klein, W. H., 21.7–78
- Korb, G., 21.5–163
- Kruger, H. B., 21.1–222
- Marchuk, G. I., 21.8–96
- Mason, B. J., 21.9–82
- Masuda, Y., 21.3–237
- Ninomiya, K., 21.4–29
- Ovchinskiĭ, B. V., 21.1–224
- Petersen, D. P., 21.5–171
- Sasaki, Y., 21.3–246; 21.5–174
- Shuman, F. G. et al., 21.8–100
- Sloan, L. J. et al., 21.9–83
- Smagorinsky, J. et al., 21.3–247
- Sundqvist, H., 21.12–135
- Ter-Mkrtchian, M. G., 21.3–248
- Thompson, P. D., 21.3–249, –250; 21.8–103
- Williamson, D. L., 21.5–181

Numerical forecasting with primitive equations
Bykov, V. V., 21.8–87
Hinkelmann, K., 21.8–92
Shuman, F. G., 21.8–98, –99, –109
Spar, J. et al., 21.8–102
Tskvitinidze, Z. I., 21.9–84
Numerical geopotential field
Beseleaga, N. et al., 21.5–158
Numerical geopotential field forecasting
Isaev, H. V. et al., 21.1–220
Kopacek, J., 21.7–87
Shuman, F. G., 21.8–99
Sitnikov, I. G. et al., 21.1–226
Tatarskaia, M. S. et al., 21.1–228
Tskvitinidze, Z. I., 21.5–178; 21.9–84
Numerical hurricane forecasting
King, G. W., 21.11–111
Miller, B. I., 21.3–264
Numerical integration techniques
Turikov, V. G., 21.5–376
Numerical long-range forecasting
Bagrov, N. A. et al., 21.8–108
Corby, G. A., 21.12–365
Fuks-Rabinovich, M. S. 21.1–245
Gandin, L. S., 21.8–91
Shuman, F. G., 21.8–98, –101, –109
Speich, J., 21.7–104
Numerical long-range forecasting models
Adem, J., 21.5–156
Numerical mesometeorological forecasting
Gericke, M., 21.4–329
Numerical models
Berkofsky, L., 21.4–107
Numerical precipitation forecasting
Burtsev, A. I., 21.8–86
Glahn, H. R., 21.5–160; 21.7–95
Jarvis, E. C. et al., 21.4–28
Kwizak, M. et al., 21.5–166
Skoda, G., 21.9–93
Spar, J., 21.5–175
Ter-Mkrtchian, M. G., 21.3–248
Uspenskiĭ, B. D., 21.11–113
Willis, P. T., 21.12–136
Numerical pressure field forecasting
Chernova, V. F. et al., 21.1–217
Mashkovich, S. A., 21.1–246
Numerical pressure forecasting
Glahn, H. R. et al., 21.5–160
Numerical rainfall forecasting
Benwell, G. R. R. et al., 21.1–216
Bushby, F. H., 21.3–228
Numerical short-range forecasting
Bykov, V. V., 21.8–87
Gandin, L. S., 21.8–91
Iudin, M. I., 21.8–93
Reiser, H., 21.5–172
Shuman, F. G. et al., 21.8–98, –101
Thompson, P. D., 21.3–249
World Meteorological Organization, 21.8–104
Numerical snowstorm forecasting
Spar, J. et al., 21.8–102
Numerical temperature forecasting
Klein, W. H. et al., 21.7–92
Kuo, H. L., 21.5–165
Numerical tropical cyclone forecasting
Renard, R. J., 21.11–112
Numerical tropical storm forecasting
Renard, R. J., 21.1–225
Numerical typhoon forecasting
Renard, R. J., 21.11–112
Numerical upper air temperature forecasting
Bengtsson, L., 21.10–101
Numerical upper air wind forecasting
Bengtsson, L., 21.10–101
Numerical weather forecasting technique
Egger, J., 21.12–128
Numerical weather prediction
U. S. Weather Bureau, 21.9–124R
Numerical wind forecasting
Boye, H. et al., 21.6–132
Dobryshman, E. M., 21.3–254
Shuman, F. G., 21.8–99
Strizhevskiĭ, L. N., 21.1–227
Tskvitinidze, Z. I., 21.5–178
Nutational effects on atmospheric process
Khaminov, N. A., 21.5–665

O

***Ob* Antarctic Expedition**
Toporkov, L. G., 21.5–775
Treshnikov, A. F., 21.5–22
Obituary of Brezowsky, Helmut
Weihe, W. H., 21.9–154R
Obituary of Kolomiitsov, V. I.
Shifrin, K. S., 21.11–21R
Obituary of Sinelshikov, Victor Vasilienich
Petrosiants, M. A., 21.1–73
Objective analysis
Belousov, S. L. et al., 21.5–155; 21.8–84
Boville, S., 21.12–127
Dixon, R., 21.7–85
Fujiwhara, S., 21.1–232
Gandin, L. S. et al., 21.3–293; 21.8–91
Gubanova, S. I. et al., 21.1–214
Kheĭfets, Ia. M., 21.6–133
Kostiukov, V. V. et al., 21.3–235
Kruger, H. B., 21.1–222
Miroslav, S., 21.7–81
Ninomiya, K., 21.4–29; 21.5–169
Nitta, T., 21.3–239

  - Ovehinskiĭ, B. V., 21.1–224
  - Petersen, D. P., 21.5–171; 21.12–133
  - Petrov, A. A., 21.6–17
  - Sasaki, Y., 21.5–174
- **Objective forecast verification**
  - Carlstead, E. M., 21.8–110
- **Objective forecasting**
  - Clayton, W. H. et al., 21.6–8
- **Objective forecasting methods**
  - Rousseau, D. et al., 21.3–46
- **Objective rainfall forecasting**
  - Palmieri, S. et al., 21.7–98
  - Shukla, J., 21.5–191
- **Observation techniques**
  - Carten, A. S., Jr., 21.7–11
  - Chappell, R. G., 21.7–12
  - Giraytys, J., 21.7–14
- **Observational equipment**
  - Carten, A. S., Jr., 21.7–11
  - Chappell, R. G., 21.7–12
- **Observational errors**
  - Junghans, H., 21.7–15
- **Observational networks**
  - Giraytys, J., 21.7–14
- **Observers manuals**
  - Great Britain. Meteorological Office, 21.3–42
- **Occluded cyclones**
  - Clauss, J., 21.12–378
- **Occultation experiments**
  - Kliore, A. et al., 21.10–616
  - Lusignan, B. B., 21.7–20
- **Ocean–atmosphere exchange**
  - Paulson, C., 21.1–353
- **Ocean–atmosphere interaction**
  - Bjerknes, J., 21.12–2R
  - Ivanov, V. I. et al., 21.4–659
  - Kort, V. G., 21.2–707
  - Manabe, S. et al., 21.2–333
  - Stewart, R. W., 21.12–12R
- **Ocean–atmosphere investigations**
  - Bortkovskiĭ, R. S., 21.9–15R
  - Warsh, K. L. et al., 21.10–794
- **Ocean–atmosphere relationships**
  - Dickson, R. et al., 21.10–828
- **Ocean basins**
  - Dietz, R. S., 21.1–728
- **Ocean bottom heat flow**
  - Grim, P. J., 21.4–749
- **Ocean current anomalies**
  - Niiler, P. P., 21.6–845
- **Ocean current calculations**
  - Bolgurtsev, B. M. et al., 21.4–714
  - Cane Lucaya, N., 21.2–738
  - Samrov, V. P., 21.11–772
  - Sarkisian, A. S. et al., 21.4–721; 21.10–823
  - Shkudova, G. Ia. et al., 21.9–727
  - Spielbauer, M. et al., 21.9–723
- **Ocean current data**
  - Gould, W. J., 21.8–820
- **Ocean current data analysis**
  - Hamburg. Deutsches Hydrographisches Institut, 21.11–770
  - Spielbauer, M. et al., 21.9–723
- **Ocean current distribution**
  - Hamon, B. V., 21.2–757
  - Krugler, F., 21.4–757
  - Leipper, D. F., 21.5–798
- **Ocean current dynamics**
  - Orlanski, I., 21.4–737
  - Sarkisian, A. S. et al., 21.4–731; 21.10–823
  - Shapiro, N. B., 21.2–759; 21.4–732
- **Ocean current effects**
  - Keller, J. B., 21.1–736
  - Kort, V. G., 21.2–707
- **Ocean current flow direction**
  - Niiler, P. P., 21.6–845
- **Ocean current instruments**
  - Banchero, L. A. et al., 21.8–824
- **Ocean current investigations**
  - Matthäus, W., 21.10–819
  - Mosby, H., 21.4–640
- **Ocean current meanders**
  - Chew, F. et al., 21.10–822
- **Ocean current measurement errors**
  - Okubo, A., 21.4–728
- **Ocean current measurement floats**
  - Magnell, B. A., 21.4–727
- **Ocean current measurement techniques**
  - Magnell, B. A., 21.4–727
- **Ocean current measurements**
  - Banchero, L. A. et al., 21.8–824
  - Bolgurtsev, B. N. et al., 21.2–734
  - Broida, S., 21.4–715
  - Collins, C. A. et al., 21.1–741; 21.10–818
  - Hamburg. Deutsches Hydrographisches Institut, 21.11–770
  - LaCombe, H., 21.2–676
  - Mooers, C. N. K. et al., 21.1–719
  - Wyrtki, K., 21.4–725
- **Ocean current meters**
  - Forstner, H., 21.2–696
  - International Council of Scientific Unions, 21.7–835
  - Popov, I. K., 21.7–836
- **Ocean current models**
  - Shkudova, G. Ia. et al., 21.9–727
- **Ocean current observation systems**
  - Konovalova, I. Z., 21.9–722
- **Ocean current observation techniques**
  - Sharikov, Iu. D., 21.8–847
  - Zdanovich, V. G. (ed.), 21.9–725
- **Ocean current profiles**
  - Rossby, H. T., 21.3–794
  - Siedler, G., 21.2–743
- **Ocean current research**
  - Hidaka, K., 21.4–717
- **Ocean current salinities**
  - Rinkel, M. O., 21.4–720
- **Ocean current–sea level fluctuation relationships**
  - Soskin, I. M., 21.9–726
- **Ocean current-sea surface temperature effects**
  - Satoh, Y., 21.11–774
- **Ocean current studies**
  - Cochrane, J. D., 21.2–679

Collins, C. A., 21.1–741
Engelmann, G., 21.8–846
Ramster, J. W. et al., 21.4–719
Shonting, D. H., 21.4–722
Silva, Paulo de Castro Moreira da, 21.9–728
Tanioka, K., 21.4–724
Tomczak, 21.1–724

Ocean current surveys
Hynitzsch, G., 21.12–766
Leipper, D. F., 21.5–798
Masuzawa, J., 21.4–726

Ocean current systems
Leipper, D. F., 21.5–798
Shliamin, B. A., 21.8–848

Ocean current temperatures
Masuzawa, J., 21.4–726
Ogura, Y. et al., 21.6–847
Samoĭlenko, V. S., 21.10–821
Wright, R., 21.4–185

Ocean current transport
Bruce, J. G., 21.1–740
Knauss, J. A., 21.12–8R
Tanioka, K., 21.4–724

Ocean current variations
Hamon, B. V., 21.2–757
Masuzawa, J., 21.4–726

Ocean current velocities
Stander, G. H. et al., 21.4–729

Ocean current vertical velocities
Sudo, H., 21.4–723

Ocean density
Heath, R. A., 21.2–726

Ocean density measurements
Bolgurtsev, B. N. et al., 21.2–734

Ocean dynamics
Clarke, R. A., 21.2–736
Gates, W. L., 21.2–758
Hasse, L. et al., 21.3–792
Marchuk, G. I., 21.2–737

Ocean floor temperatures
Mesecar, R. S. et al., 21.7–847

Ocean heat transfer
McAlister, E. D., 21.3–783

Ocean long waves
Crepon, M., 21.1–748

Ocean observations by satellites
Stehling, K. R., 21.2–691

Ocean sound channel
Fenner, D. F. et al., 21.7–841

Ocean stratification
DeMaio, A. et al., 21.2–745
Siedler, G., 21.2–743

Ocean structure
Hisard, P. et al., 21.2–755
Novitskiĭ, V. P., 21.2–742

Ocean swell analysis
Hamilton, G. D. et al., 21.1–745
Sager, G., 21.11–782

Ocean swell data
Wilson, W. S., 21.2–661

Ocean swell effects on sea temperatures
Borisov, E. V., 21.11–768

Ocean swell forecasting
Kikuchi, S., 21.9–743
Pore, N. A. et al., 21.4–756

Ocean swell measurements
Walden, H., 21.9–744; 21.12–780

Ocean swell variations
Walden, H., 21.12–780

Ocean temperature anomalies
Countryman, K. A., 21.12–771

Ocean temperature charts
Garner, D. M., 21.9–730
Ridgway, N. M., 21.6–848

Ocean temperature data
Australia. Commonwealth Scientific and Industrial Org., Div. of Fisheries and Oceanography, 21.2–670
Gilbert, W. et al., 21.1–718
U. S. Navy Underwater Sound Lab., New London, Conn., 21.3–771

Ocean temperature effects on marine life
DeSylva, D. P., 21.2–761

Ocean temperature fluctuations
Broek, H. W., 21.9–732
Carsola, A. J. et al., 21.2–766
Lavorko, V. S., 21.4–161
Shelkovnikov, N. K. et al., 21.4–183; 21.4–739

Ocean temperature forecasting
Mileiko, C. N., 21.1–250
Skriptunova, L. I., 21.1–251
Spidehenko, A. N., 21.1–253

Ocean temperature inversions
Pak, H. et al., 21.5–797

Ocean temperature–marine life effects
Dow, R. L., 21.4–738

Ocean temperature measurements
Gilmour, A. E., 21.2–216
Mooers, C. N. K. et al., 21.1–719

Ocean temperature profiles
Gilmour, A. E., 21.2–216
Hamon, B. V., 21.2–748
Kitano, K., 21.11–330
Malevskiĭ-Malevich, S. P., 21.3–571
Nagata, Y., 21.10–814
Shonting, D. H., 21.11–769
Trenin, V. P., 21.9–715
Van Vliet, C. J., 21.4–711

Ocean temperature recorders
Davies, I. E. et al., 21.5–788

Ocean temperature regime
Shonting, D. H., 21.12–772
Vladimirov, O. A. et al., 21.9–729

Ocean temperature–salinity analysis
Duing, W. et al., 21.5–512

Ocean temperature seasonal variations
Garner, D. M., 21.4–742

Ocean temperature structure
Gostev, V. S. et al., 21.10–813
Pingree, R. D., 21.4–709
Shelkovnikov, N. K., 21.4–739
Trenin, V. P., 21.9–715

Ocean temperature variations
Broek, H. W., 21.12–774
Loewe, F., 21.4–183
Midttun, L., 21.10–826
Navrotskiĭ, V. V. et al., 21.2–700

Ocean tides
  Rzhonsnitskiĭ, V. B., 21.12–799
  Smith, F. G., 21.2–791, –792
  Zetler, B. D., 21.12–800
Ocean water mass distribution
  Cano Lucaya, N. et al., 21.2–752
  Rochford, D. J., 21.2–754
  Tomczak, G., 21.1–724
Ocean water mass formation
  Sudo, H., 21.4–723
Ocean water masses
  Gong, Y. et al., 21.9–716
  Hufford, G. L. et al., 21.9–717
  Masuzawa, J., 21.9–719
  Milligan, D. B., 21.6–828
  Roden, G. I., 21.10–812
  Shcherbinin, A. D., 21.8–844
Ocean wave analysis
  Efimov, V. V. et al., 21.9–739
  Hamilton, G. D. et al., 21.1–745
  Matushevskiĭ, G. V., 21.3–800
Ocean wave attenuation
  Carswell, M. S., 21.1–746
  Dean, C. H., 21.4–758
Ocean wave characteristics
  Glukhovskiĭ, B. Kh., 21.4–755
Ocean wave climatology
  Land, P. B. et al., 21.10–834
Ocean wave computation
  Lopatukhin, L. I., 21.11–776
Ocean wave data analysis
  Rozhkov, V. A., 21.12–777
  Saenger, R. A., 21.7–838
  Srivastava, P. S. et al., 21.10–832
Ocean wave diffraction
  Voĭt, S. S. et al., 21.2–786
Ocean wave dynamics
  Kononkova, G. E., 21.11–775
Ocean wave effects
  Volkov, Iu. A., 21.7–433
Ocean wave forecasting
  Abuziarov, Z. K., 21.1–258
  Bogden, E. A. et al., 21.2–785
  Ewing, J. A., 21.2–780
  Pore, N. A. et al., 21.4–756
Ocean wave gages
  Czepa, O., 21.7–837
Ocean wave handbooks
  Bores, P. S., 21.9–737
Ocean wave instrumentation
  Goldberg, H. D. et al., 21.4–650
Ocean wave instruments
  Wu, J. et al., 21.4–655
Ocean wave measurement techniques
  Vinogradov, V. V. et al., 21.4–651
Ocean wave measurements
  Czepa, O. et al., 21.4–753
  Dean, C. H., 21.4–648
  Dremliug, V. V., 21.6–837
  Olsen, W. S., 21.12–746
  Saenger, R. A., 21.7–838
Ocean wave models
  Shvetsov, K. Ia. et al., 21.4–754
Ocean wave observations
  France. Météorologie Nationale, 21.4–649
  Ward, J. F., 21.4–750
Ocean wave recorders
  Czepa, O., 21.7–837
  Vinogradov, V. V. et al., 21.4–651
Ocean wave recording equipment
  Dean, C. H., 21.4–648
Ocean wave regimes
  Bogden, E. A. et al., 21.2–785
  Davidan, I. N., 21.9–742
Ocean wave–ship speed data
  Lifshits, V. M., 21.2–783
Ocean wave spectra
  Efimov, V. V. et al., 21.9–739
  Ewing, J. A., 21.2–780
  Kakinuma, T., 21.12–789
  Saenger, R. A., 21.7–838
Ocean wave spectra analysis
  Garrett, J., 21.4–751
Ocean wave spectra calculation
  Rozhkov, V. A., 21.12–777
  Saenger, R. A., 21.2–697
Ocean wave theories
  Kononkova, G. E., 21.11–775
Ocean waves
  Barber, N. F. et al., 21.10–813
Ocean waves in pack ice
  Dean, C. H., 21.4–758
Ocean weather stations
  Cook, A. K., 21.10–55
Oceanic advection
  Smirnova, A. I., 21.10–806
Oceanic circulation
  Garner, D. M., 21.3–796
  Rochford, D. J., 21.2–732
Oceanic circulation dynamics
  Il'in, A. M. et al., 21.8–840
  Ivanov, Iu. A., 21.9–707
  Marchuk, G. I., 21.12–758
Oceanic circulation models
  Fel'zenbaum, A. I., 21.4–701
  Il'in, A. M. et al., 21.8–840
  Kuo, H.-H., 21.12–755
  Sarkisian, A. S., 21.4–703
  Stevenson, M., 21.5–795
Oceanic circulation studies
  Cochrane, J. D., 21.2–679
  Lal, D., 21.12–9R
  Makerov, Iu. V., 21.9–55R
  Stevenson, M., 21.5–795
  Swallow, J. C., 21.12–13R
Oceanic circulation theories
  Faller, A. J., 21.4–700
  Lebedev, V. L., 21.6–842
Oceanic diffusion
  Higuchi, H., 21.12–760, –761
  Meerburg, A. J., 21.10–810
  Okubo, A., 21.9–697
  Ozmidov, R. V., 21.9–708, –709
  Sastry, J. S. et al., 21.9–698
Oceanic dynamics
  Duing, W., 21.4–704
Oceanic eddies
  Ichiye, T., 21.2–740
Oceanic energetics
  Shonting, D. H., 21.4–722
Oceanic fronts

Bogdanov, M. A. et al., 21.9–711
Collins, C. A., 21.1–741
Gruzinov, V. M., 21.4–733
Katz, E. J., 21.3–798
Nunn, S. O., III, 21.3–793
Zaneveld, J. R. V. et al., 21.9–713

Oceanic geopotential field
Garner, D. M., 21.3–796

Oceanic heat content
Pattullo, J. G. et al., 21.2–701

Oceanic mixing
Gruzinov, V. M., 21.9–39R
Ichiye, T., 21.2–740
Okubo, A. et al., 21.8–842; 21.9–697; 21.10–811
Sastry, J. S. et al., 21.9–698

Oceanic oil pollution
Blumer, M., 21.5–784

Oceanic resources
Gullion, E. A., 21.1–26

Oceanic sediments
Lisitsin, A. P., 21.1–12

Oceanic stability parameters
Thorpe, S. A., 21.10–809

Oceanic stratification
Ingham, M. C., 21.2–749
Zenk, W., 21.4–712

Oceanic structures
Rochford, D. J., 21.1–738
Shcherbinin, A. D., 21.4–705

Oceanic thermal stratification
Neal, V. T., 21.2–708

Oceanic tides
Cartwright, D. et al., 21.4–766

Oceanic turbulence
Beliakov, L. N., 21.4–781
Benilov, A. Iu., 21.2–739
Kraav, V. K., 21.3–797
Lee, C. Y., 21.6–509
Moore, M. J., 21.11–767
Panov, V. V., 21.2–741
Pao, Y.-H., 21.11–229

Oceanic turbulence meters
Wiseman, W. J., 21.4–794

Oceanic turbulence theories
Thorpe, S. A., 21.10–809

Oceanic turbulent diffusion
Schuert, E. A., 21.5–796

Oceanic turbulent exchange
Marchuk, G. I., 21.12–758

Oceanic vortices
Nakamura, S., 21.12–805

Oceanographic acoustic research equipment
Leedham, O. D. et al., 21.2–694

Oceanographic acoustics
Kutschale, H., 21.8–827

Oceanographic atlas of Pacific Ocean
Barkley, R. A., 21.2–644

Oceanographic atlases
Dietrich, et al., 21.1–38
U. S. National Oceanographic Center, 21.4–663

Oceanographic chemistry
Nehring, D., 21.12–747

Oceanographic chemistry textbooks
Horne, R. A., 21.6–839

Oceanographic conditions
Angot, M., 21.1–744
Countryman, K. A., 21.6–832

Oceanographic conferences
Conference on the Technology of the Sea and the Sea-Bed, 21.7–829
Danilov, V. J., 21.3–756
EASTROPAC Colloquium, 21.4–630
National Security Industrial Association, 21.4–632
Ocean Test Range & Instrumentation Conference, OTRAN, Honolulu, 21.2–690
Wisconsin Univ. Sea Grant Program, 21.4–636

Oceanographic congress, Moscow, 1966
International Oceanographic Congress, 2nd, Moscow, 21.12–6R

Oceanographic cross sections
Seckel, G. R., 21.7–846
Stanley, R. J., 21.4–706

Oceanographic cruise
Akamatsu, H. et al., 21.3–775

Oceanographic cruise data
Australia. Commonwealth Scientific and Industrial Res. Org., Div. of Fisheries and Oceanography, 21.2–671
Barstow, D. et al., 21.8–814
Barwick, A. S., 21.2–672
Botnikov, V. N., 21.12–740
Bourkland, M. T., 21.4–639
Brazil. Diretoria de Hidrografia e Navigação, 21.1–720
Canada. Oceanographic Data Centre, Ottawa, 21.2–673, –674
Chung, Y. et al., 21.8–816
DeMaio, A. et al., 21.2–745
Gallardo, Y. et al., 21.1–721
Gould, W. J., 21.8–820
Henrotte-Bois, M., 21.2–675
Jitts, H. R., 21.6–830
Kenney, D. E., 21.3–772
Lacombe, H., 21.2–676
Masuzawa, J., 21.8–819
Milligan, D. B., 21.6–828
National Institute of Oceanography, Wormley, England, 21.3–777
Nehring, D. et al., 21.7–832
Schemainda, R., 21.3–773
Voigt, K. et al., 21.3–774

Oceanographic cruise reports
Collias, E. E., 21.2–680
Gordon, A. L., 21.4–643
Larsen, L. H. et al., 21.4–771
Mosetti, F. et al., 21.10–793

Oceanographic data
Australia. Commonwealth Scientific and Industrial Res. Org., Div. of Fisheries and Oceanography, 21.2–668
Ingraham, W. J., Jr., 21.2–665
Jacobs, C. A. et al., 21.8–822

- Japan. Meteorological Agency, Tokyo, 21.11–56
- Jenkins, C. F. et al., 21.8–821
- Minkley, B. G., 21.11–63R
- Mosby, H., 21.4–640
- Northrop, G. M., 21.8–823
- U. S. Naval Oceanographic Office, 21.9–673

Oceanographic data, Canada
- Canada. Oceanographic Data Centre, 21.9–172R

Oceanographic data, Eastern Canada
- Canada. Oceanographic Data Centre, 21.9–173R to 175R

Oceanographic data, Japan
- Higano, R., 21.10–110R

Oceanographic data, North Pacific Ocean
- Canada. Oceanographic Data Centre, 21.9–187R, –188R

Oceanographic data, North Sea
- Netherlands. Meteorologisch Instituut, 21.9–178R

Oceanographic data, Pacific Ocean
- California. Univ., San Diego, 21.9–186R
- Evans, M. W., 21.9–190R

Oceanographic data acquisition systems
- Beckers, C., 21.2–686

Oceanographic data analysis
- Cooper, L. H. N., 21.10–791
- Ishino, M., 21.6–826
- Schroeder, E. et al., 21.10–815

Oceanographic data catalogs
- Texas Instruments, Inc., Dallas, 21.1–722
- World Data Center A [for] Oceanography, Wash., D. C., 21.2–666

Oceanographic data centers
- Schuyler, S. (comp.), 21.6–827

Oceanographic data exchange
- World Data Center A [for] Oceanography, Wash., D. C., 21.10–60R, –61R; 21.11–46R

Oceanographic data processing
- *U. S. National Oceanographic Data Center, Newsletter*, 21.3–770
- Schuyler, S. (comp.), 21.6–827

Oceanographic data processing systems
- Spidchenko, A. N., 21.12–739

Oceanographic education
- Charlier, P. S., 21.2–645
- N. Carolina Univ. Office of Marine Sciences, 21.2–652

Oceanographic equipment
- Graefe, V. et al., 21.7–834

Oceanographic expedition data
- Kitamura, K., 21.3–776
- Yasui, M. et al., 21.3–799
- Yasuoka, T., 21.3–795

Oceanographic expedition reports
- Capurro, L. R. A., 21.4–642
- Hufford, G. L. et al., 21.4–644

Oceanographic expeditionary data
- International Council for the Exploration of the Sea, 21.8–818
- Watanabe, R. et al., 21.6–829

Oceanographic expeditions
- Ozmidov, R. V., 21.9–708

Oceanographic history
- Miscoski, V. T., 21.3–760

Oceanographic institutes
- Kiel, Univ., 21.1–714

Oceanographic instrument development
- U. S. National Oceanographic Instrumentation Center, Wash., D. C., 21.2–692

Oceanographic instrument platforms
- Lankes, L. R., 21.12–741

Oceanographic instrument systems
- Lockwood, D. R., 21.12–742

Oceanographic instruments
- Ocean Test Range & Instrumentation Conference, OTRAN, Honolulu, 21.2–690
- Plunkett, R. D., 21.9–674
- Tackabery, R. E., 21.4–646

Oceanographic laboratories
- Bretschneider, C. L., 21.4–645

Oceanographic measurements
- Konovalova, I. Z., 21.9–722

Oceanographic models
- Bretschneider, C. L., 21.4–645
- Bryan, K., 21.6–833
- Cox, M. D., 21.12–754
- Higuchi, H., 21.12–760, –761

Oceanographic observation techniques
- LaViolette, P. E., 21.3–758

Oceanographic observational data
- Korea. Fisheries Research and Development Agency, Pusan, 21.2–669

Oceanographic observations
- Garcia, A. W., 21.2–664
- Japan. Meteorological Agency, 21.5–66

Oceanographic operations program
- Mosby, H., 21.11–758

Oceanographic photometry
- Jitts, H. R., 21.6–830

Oceanographic regime
- Berrit, G. R., 21.4–691
- Lisitsin, A. P., 21.1–12
- Rochford, D. J., 21.1–738

Oceanographic reprint collection
- National Institute of Oceanography, Wormley, England, 21.11–106R
- U. S. Atlantic Oceanographic and Meteoro-

logical Labs., Miami, 21.11–110R

Oceanographic research
- Abel, R. B., 21.3–766
- Akademiia Nauk SSSR. Institut Okeanologii, 21.10–1R
- Calif. Univ. Scripps Inst. of Oceanography, 21.1–715
- French, R. A., 21.3–767
- Giorgi, M., 21.2–662
- Italy. Commissione di Studio per la Oceanografia e la Limnologia, 21.7–830
- Knauss, J. A., 21.3–768
- Newfoundland. Memorial Univ., 21.4–637
- Nygren, H. D., 21.3–769
- North Carolina Univ. Office of Marine Sciences, 21.2–652
- Oregon. State Univ., Corvallis. Dept. of Oceanography, 21.2–653
- Split, Yugoslavia. Hydrografski Institut, 21.2–656, –657
- Texas. Agricultural and Mechanical Univ., College Station, 21.10–68R

Oceanographic research, France
- Villat, P., 21.12–30R
- *World Meteorological Organization, WMO Bulletin,* 21.1–87

Oceanographic research institutes
- Split, Yugoslavia. Hydrografski Institut, 21.2–656, –657

Oceanographic research organizations
- *Oceanic Citation Journal* [La Jolla, Calif.], 21.4–641

Oceanographic research proposals
- Joint Working Party on the Scientific Aspects of International Ocean Research, 21.5–785

Oceanographic research reports
- Texas. Agricultural and Mechanical Univ., College Station, 21.2–658

Oceanographic research ships
- Plunkett, R. D., 21.3–761
- *Sealift* [Wash., D. C.], 21.2–685

Oceanographic research vessels
- *Hydrospace* [London], 21.1–725

Oceanographic services
- Smed, J., 21.2–655

Oceanographic studies
- Aota, M., 21.2–643
- Beliaev, Iu. I., 21.1–713

Oceanographic surveys
- Akamatsu, H. et al., 21.3–775
- Bibik, V. A., 21.2–677
- Brazil. Diretoria de Hidrografia e Navigação, 21.1–720
- Coachman, L. K. et al., 21.6–831
- Cochrane, J. D., 21.2–679
- Countryman, K. A., 21.6–832
- Dahme, A., 21.2–663
- Donguy, J. R. et al., 21.1–754; 21.7–833
- Kenney, D. E., 21.3–772
- Milligan, D. B., 21.6–828
- Stanley, A., 21.2–681
- Thomas, C., 21.2–683
- U. S. Naval Oceanographic Office, 21.3–778

Oceanographic symposia
- *Progress in Oceanography* [Oxford, England], 21.10–789
- Symposium on the Oceanography and Fisheries Resources of the Tropical Atlantic, Abidjan, Ivory Coast, 21.3–763

Oceanographic variations
- Mann, C. R., 21.10–825
- Schroeder, E., 21.10–815
- Shpaikher, A. O. et al., 21.4–743

Oceanography
- Bayer, F. M., 21.12–734
- Behrman, D., 21.6–825
- National Symposium on Ocean Sciences and Engineering of Atlantic Shelf, 21.11–107R
- *Scientific American* [N.Y.], 21.11–109R
- Symposium on Investigations and Resources of the Caribbean Sea and Adjacent Regions, 21.12–738
- U. S. Naval Oceanographic Office, 21.12–18R

Oceanography, France
- France. Centre National pour l'Exploitation des Oceans, 21.12–16R

Oceanography books
- Emery, K. O., 21.9–750

Oceanography education
- University of Rhode Island, 21.3–764
- University of Washington, 21.3–765

Oceanography periodicals
- France. Centre National pour l'Exploitation des Oceans, 21.2–646

Oceanography reprint collections
- U. S. Institute for Oceanography, 21.4–635

Oceanography textbooks
- Kononkova, G. E., 21.11–775
- Weyl, P. K., 21.10–790

Oceanology
- Strokina, L. A., 21.12–737

Odor pollution control
- Gubola, M., 21.2–52

Odors
- Gubola, M., 21.2–52

Oka River, Europe
- Zmieva, E. S. et al., 21.2–525

Open channel flow
- Simons, D. B., 21.2–606
- Wilson, K. V., 21.2–607

Operation Raincheck
- Brissett, D. T., 21.1–123

Operational forecasts
- Booz-Allen Applied Research, Inc., Los Angeles, Calif., 21.3–221

Optical measurement techniques
- Kostko, O. K., 21.12–34

Optical oceanographic instruments
  Austin, R. W., 21.12–744
Optical phenomena
  Chernov, V. M., 21.6–676
  Emil'ianov, Iu. M., 21.10–13R
  Fabre, R., 21.6–152
  Kerr, J. R., 21.6–673
Optical properties of air masses
  Graham, D. A., 21.11–494
Optical properties of clouds
  Hansen, J. E., 21.7–565
Optical properties of disperse system
  Shifrin, K. S. et al., 21.9–415
Optical properties of pond water
  Motschka, O., 21.12–715
Optical properties of seawater
  Friedman, D., 21.7–840
  Matsuike, K. et al., 21.8–829, –830
  Morrison, R. E., 21.5–793
  Zaneveld, J. R. V. et al., 21.9–713
Optical properties of the atmosphere
  Fesenkov, V. G., 21.12–578
Optical radars
  McCormick, P. D., 21.7–56
Optical refractive index
  Bean, B. R., 21.9–190
  Bugaev, Iu. G., 21.12–318
  Deitz, P. H., 21.6–251
  Toropova, T. P. et al., 21.8–575
Optical refractive index fluctuations
  Portman, D. J., 21.6–14
Optical resolution of atmospheric turbulence
  Gray, D. A. et al., 21.10–320
Optical soundings
  Fried, D. L., 21.6–9
  Cialdea, R. et al., 21.4–363
  Lawrence, R. S., 21.6–11
  Montgomery, A. J., 21.6–13
  Pokrovskiĭ, O. M., 21.9–22
  Portman, D. J., 21.6–14
  Sandborn, V. A., 21.6–15
Optical test base line
  Williams, O. W., 21.3–176
Optical wave measurements
  Wu, J. et al., 21.4–655
Optimum distribution of gaging stations
  Kabanova, K. S., 21.12–658
Optimum station networks
  Alaka, M. A. et al., 21.5–157
  Buz, A. I., 21.10–34
  Fett, W., 21.6–321
  Kowalczyk, S., 21.7–17
  Ter-Mkrtchian, M. G., 21.5–34
Orbiting geophysical observatory
  Burtis, W. J., 21.2–379
  Nilsson, C. S., 21.11–602
  Whipple, E. C., Jr. et al., 21.1–161
Orbiting Geophysical Observatory-2
  Taylor, H. A. et al., 21.10–493
Orbiting Geophysical Observatory-3
  Pfitzer, K. A. et al., 21.10–287
  Russell, C. T. et al., 21.9–459
Orbiting Geophysical Observatory-4
  Fritz, T. Z. et al., 21.8–270
  Warnecke, G. et al., 21.3–523; 21.5–458
Orbiting Geophysical Observatory-5
  Chappell, C. R. et al., 21.6–246
  Harris, K. K. et al., 21.6–248
Orbiting Geophysical Observatory satellites
  Arnoldy, R. L. et al., 21.2–132
  Kane, S. R., 21.11–662
  Smith, E. J., 21.2–386
Orbiting Solar Observatory
  Hinteregger, H. E. et al., 21.7–159
Orbiting Solar Observatory-3
  Fichtel, C. E. et al., 21. 696
Orbiting Solar Observatory-4
  Calhane, J. L. et al., 21. 263
Orbiting Solar Observatory-5
  Frost, K. J., 21.8–271
Organic carbon in seawater
  Fredericks, A. D., 21.1 751
  Gordon, D. C., Jr., 21.1 752
Organic matter content-soil moisture relationships
  Neunylov, B. A. et a 21.10–552
Organic matter in seawat
  Ehrhardt, M., 21.4–690
  Szkielda, K. H., 21.4–66
  Williams, P. M., 21.12–7
Organic phosphorous in seawater
  Yamamoto, K., 21.4–686
Origin of atmosphere
  Cloud, P., Jr., 21.4–471
  Johnson, F. S., 21.4–483
Origin of atmospheric gases
  McGovern, W. E., 21. 281
Origin of atmospheric oxygen
  Brinkmann, R. T., 21. 130
Origin of Earth's water
  Cloud, P., Jr., 21.4–471
Origin of planetary atmo spheres
  Johnson, F. S., 21.4–483
Origin of radiation belt protons
  Farley, T. A. et al., 21. 268
Origin of radiation belts
  McIlwain, C. E., 21.10–2
  Vernov, S. N., 21.9–229
Origin of solar system
  White, M. L., 21.2–435
Origin of solar wind
  Mustel, E. R., 21.9–222
Origin of zodiacal dust
  Greenberg, J. M., 21.6–6

Orionid meteor swarm
Ferry, G. V., 21.12–617
Orographic–air flow effects
Dirks, R. A., 21.8–339
Orographic–atmospheric pollution effects
Mrose, H., 21.12–251
Orographic–climate effects
Dannevig, P., 21.8–513
Orographic cloud formation
Liu, J. Y. et al., 21.4–275
Orographic cloud seeding
Mielke, P. W., Jr., 21.11–139
Orographic cloud studies
Magata, M., 21.7–517
Wilkening, M. H., 21.12–331
Orographic convection cell
Yamakawa, H., 21.11–52
Orographic diffusion
Zeleny, J., 21.7–488
Orographic effects
Kasahara, A. et al., 21.7–281
Soma, S., 21.7–469
Orographic effects on airflow
De Félice, P., 21.10–350
Soma, S., 21.7–469
Orographic effects on atmospheric circulation
Chu, Y. T., 21.1–376
Orographic effects on forecasting
Walton, J. R., 21.5–179
Orographic effects on precipitation
Nikleva, S., 21.1–618
Perrin, P., 21.1–645
Orographic effects on precipitation distribution
Dickinson, R. B. B., 21.1–617
Orographic effects on rainfall
Hutchinson, P., 21.1–604
Pedgley, D. E., 21.7–610
Orographic effects on runoff
Malik, L. K., 21.9–308
Orographic effects on winds
Kilbig, J., 21.6–501
Tyson, P. D., 21.10–335
Veselov, E. P., 21.1–504
Orographic frost effects
Lomas, J. et al., 21.5–482
Orographic–hail effects
Abdumalikov, T. I. et al., 21.9–335
Orographic heat balance effects
Rouse, W. R. et al., 21.6–651
Orographic influences
Desai, B. N., 21.2–106
Orographic jet stream influences
Lester, P. F., 21.5–521
Orographic precipitation
Willis, P. T., 21.12–136
Orographic–pressure effects
Adamy, L., 21.6–474
Godev, N., 21.4–186
Orographic snow cover effects
Deleur, M. S., 21.5–629
Orographic temperature effects
Catchpole, A. J. W., 21.6–425
Orographic waves
Khoroshilov, A. F., 21.5–538
Lovill, J. E., 21.1–545
Wilkins, E. M., 21.7–518
Orographic weather effects
Kurz, M., 21.6–529
Orographic wind effects
Godev, N., 21.5–537
Kurz, M., 21.6–529
Morawska, M., 21.5–542
Zakhariev, V., 21.7–519
Orography–mesoscale vertical motions computations
Mikashavidze, B. A. et al., 21.10–349
Outer radiation belt
McDiarmid, I. B. et al., 21.7–376
Pfitzer, K. A. et al., 21.10–287
Yeager, D. M. et al., 21.4–155
Outgoing radiation
Germogenova, T. A. et al., 21.7–346
Samuelson, R. E., 21.6–384
Outgoing radiation flux
Barashkova, E. P., 21.11–3R
Drobyshevich, V. I., 21.1–464
Outgoing radiation spectrum
Girard, A., 21.12–426
Oxidant concentration in air
Fel'dman, Iu. G. et al., 21.1–293
Oxidation in seawater
Sorokin, Iu. I., 21.11–760
Oxygen bands
Degen, V., 21.11–286
Evans, W. F. J. et al., 21.5–457
Oxygen content of air
Brinkmann, R. T., 21.7–130
Oxygen content of seawater
DeGroot, S. J., 21.2–723
Oxygen dissociation
Hudson, R. D., 21.3–319
Oxygen-18 in foraminifera
Van Donk, J., et al., 21.4–744
Oxygen-18 in seawater
Dansgaard, W. et al., 21.4–658
Van Donk, J., et al., 21.4–744
Oxygen green lines
Hesstvedt, E., 21.7–353
Oxygen in coastal waters
Stickney, A. P., 21.2–721
Oxygen in ionosphere
Herman, J. R. et al., 21.11–190
Oxygen in planetary atmospheres
McCormac, B. M. et al., 21.5–227
Oxygen in seawater
American Oceanography [Houston, Texas], 21.10–797
Sugiura, Y., 21.9–704
Oxygen in upper atmosphere
Opal, C. B. et al., 21.10–520
Oxygen measurement techniques
Perov, S. P., 21.11–31
Quessette, J. A., 21.7–163
Oxygen measurements
Perov, S. P. et al., 21.3–59

- **Oxygen photodetachment rate**
  - Woo, S. B., 21.1–283
- **Oxygen sensor**
  - *American Oceanography* [Houston, Texas], 21.10–797
- **Oxygen solubility in seawater**
  - Murray, C. N. et al., 21.4–682
- **Oyashio Current**
  - Sugiura, Y., 21.10–802, –803
- **Ozone absorption spectra**
  - Gal'tsev, A. P. et al., 21.6–209; 21.10–16R
- **Ozone–air pollution relationships**
  - Lahmann, E., 21.4–38
- **Ozone atmospheric circulation**
  - Berkofsky, L., 21.3–360
- **Ozone chemistry**
  - Paetzold, H. K., 21.3–324
- **Ozone concentration**
  - Lahmann, E., 21.4–38
  - Rat'kov, V. M., 21.4–44
- **Ozone content of air**
  - Dutsch, H. U., 21.8–133
- **Ozone correlations**
  - Britaev, A. S. et al., 21.4–40
- **Ozone damage to trees**
  - Costonis, A. C. et al., 21.7–131
- **Ozone data**
  - Belgium. Institut Royal Météorologique, 21.12–214
  - Bucharest. Observatorul de Fizica Atmosferei, 21.10–42
  - Ginsburg, Th., 21.5–328
  - Hohenpeissenberg, Bavaria. Meteorologische Observatorium, 21.4–41
- **Ozone data, Poland**
  - Polska Akademia Nauk. Zakład Geofizyki, 21.9–213R
- **Ozone data analysis**
  - Britaev, A. S. et al., 21.4–40
  - Lortie, J., 21.5–330
- **Ozone destruction**
  - Sekihara, K., 21.6–216
- **Ozone destruction rates**
  - Fabian, P., 21.12–287
- **Ozone determination**
  - DeLuisi, J. J., 21.1–455
- **Ozone distribution**
  - Bol'shakova, L. G., 21.10–9R
  - Danielsen, E., 21.12–285
  - Dziewulska-Łosiowa, A., 21.5–324
  - Jones, K. P., 21.3–320
  - Khrgian, A. Kh., 21.6–212
  - Rat'kov, V. M., 21.4–44
- **Ozone effects on animals**
  - Mudd, J. B. et al., 21.7–128
- **Ozone–electrical discharge relationships**
  - Papet–Lepine, J., 21.5–228
- **Ozone formation**
  - Brewer, A. W., 21.1–278
- **Ozone in air**
  - Lieurance, N. A., 21.5–75
- **Ozone in mesosphere**
  - Mitra, A. P., 21.12–288
- **Ozone instruments**
  - Bojkov, R. D., 21.5–321
  - Galbally, I., 21.6–208
- **Ozone–ionospheric drift relationships**
  - Grasnick, K. H., 21.10–149
- **Ozone measurement techniques**
  - Bojkov, R. D., 21.5–321
  - Craig, R. A., 21.12–284
  - Froment, G., 21.7–69
  - Magiricu, V., 21.3–37
  - Osherovich, A. L., 21.10–35R
  - Randhawa, J. S., 21.12–122
  - Sissons, N. V., 21.5–333
  - Vanier, J., 21.1–329
- **Ozone measurements**
  - Brandli, H. W., 21.10–136
  - Ellsworth, E., 21.10–88
  - Kulkarni, R. N., 21.1–280
  - Powell, D. B. B. et al., 21.6–118
  - Randhawa, J. S., 21.3–365; 21.4–59
  - Tohmatsu, T., 21.3–179
- **Ozone meter comparisons**
  - Osherovich, A. L. et al., 21.6–116
- **Ozone networks**
  - Bojkov, R. D., 21.5–321
- **Ozone observations**
  - Bojkov, R. D., 21.4–11
- **Ozone photochemistry**
  - Crutzen, P. J., 21.5–
    21.7–165
  - Dütsch, H. U., 21.1–32
  - Gebhart, R., 21.6–210
  - Mitra, A. P., 21.12–288
  - Randhawa, J. S., 21.3–
- **Ozone plant damage**
  - Davis, D. R., 21.5–221
  - Leone, I. A. et al.,
    226
- **Ozone production**
  - Papet-Lepine, J. et
    21.5–228
- **Ozone profiles**
  - Borden, T. R., Jr., 21
    283
- **Ozone–radioactivity rel**
  tionships
  - Danielsen, E., 21.12–28
- **Ozone radiosondes**
  - Piscaler, F., 21.6–117
- **Ozone research**
  - Grasnick, K. H., 21.7–
  - Gushchin, G. P., 21.9–
  - Paetzold, H. K., 21.3–3
- **Ozone–solar activity r**
  lationships
  - Paetzold, H. K. et
    21.5–331
- **Ozone soundings**
  - Hohenpeissenberg, Ba
    ia. Meteorologische
    servatorium, 21.4–41
  - Krueger, A. J., 21.5–3
  - Madlow, E., 21.6–213
  - Vigroux, E., 21.5–335
- **Ozone spectrophotome**
  - Else, C. V. et al., 21.6
- **Ozone–sporadic-E lay**
  relationships
  - Bencze, P., 21.10–153
- **Ozone–stratospheric te**
  perature relationships
  - Attmannspacher, W.,
    319
  - Azim, K., 21.4–58
- **Ozone symposia**
  - Khrgian, A. Kh., 21.3
- **Ozone–synoptic relatio**
  ships
  - Bancarel, J. P. et al.,
    149
  - Dziewulska-Łosiowa,
    21.5–324

Ozone theories
Crutzen, P. J., 21.5–323; 21.7–165
Dütsch, H. U., 21.1–324
Ozone toxicity
Leone, I. A. et al., 21.5–226
Ozone tracking of atmospheric movements
Dütsch, H. U., 21.12–286
Ozone transport
Aldaz, L., 21.6–165
Berkofsky, L., 21.3–360
Dütsch, H. U. et al., 21.5–325; 21.7–167
Gebhart, R., 21.5–327; 21.6–210
Khrgian, A. Kh., 21.6–212
Paetzold, H. K., 21.3–324
Shafrin, Iu. A., 21.1–328
Ozone–ultraviolet radiation relationships
Gebhart, R., 21.5–327
Ozone variation during eclipse
Osherovich, A. L. et al., 21.9–150
Ozone variations
Aldaz, L., 21.6–165
Bojkov, R. D., 21.5–320
Brandli, H. W., 21.10–136
Britaev, A. S. et al., 21.3–362
Farkas, E., 21.5–326
Gebhart, R., 21.5–327
Mani, A. et al., 21.6–214
Pittock, A. B., 21.1–327
Ozone–weather relationships
Davis, D. R., 21.5–221
Ozonesonde comparisons
Powell, D. B. B. et al., 21.6–118
Ozonesonde data
Borden, T. R., Jr., 21.12–283
Ozonesonde errors
Bol'shakova, L. G. et al., 21.6–114
Ozonesondes
Dütsch, H. U. et al., 21.7–166
Froment, G., 21.7–69
Hilsenrath, E. et al., 21.6–211
Mattana, N. et al., 21.2–30, –31; 21.7–170
Randhawa, J. S., 21.7–70
Ozonosphere
Shafrin, Iu. A., 21.1–328
Ozonosphere heating
Steblova, R. S., 21.11–319

P

PAGEOS satellite
Vanderburgh, R. C., 21.3–167
Pc micropulsations
Bol'shakova, O. V. et al., 21.7–742
Campbell, W. H., 21.5–739
Strestik, J., 21.5–728
pH content of seawater
Culberson, C. et al., 21.10–801
Gieskes, J. M., 21.7–842
Sugiura, Y., 21.10–802
pH measurement techniques
Gieskes, J. M., 21.7–842
Pi geomagnetic micropulsations
Campbell, W. H., 21.5–739
Haurwitz, M. W., 21.8–274
Orr, D., 21.5–740
Strestik, J., 21.5–728
Troitskaia, V. A. et al., 21.5–741
Package microclimates
Holler, E., 21.8–528
Six, H., 21.7–681
Paleobotanical investigations
Axelrod, D. I. et al., 21.6–242
Jungerius, P. D., 21.9–373
Paleoclimates
Addicott, W. O., 21.7–674
Borisov, A. A., 21.1–662; 21.12–563
Mandra, Y. T., 21.8–527
Martinson, G. G., 21.10–454
Paleoclimatology
Armillas, P., 21.2–304
Dansgaard, W. et al., 21.8–526
O'Bryan, D., 21.2–305
Paleoecology of Africa
Van Zinderen Bakker, E. M., 21.1–22
Paleoecology of Antarctica
Van Zinderen Bakker, E. M., 21.1–22
Paleogeography
Borisov, P. M., 21.1–662
Paleohydrology
Horowitz, A., 21.12–685
Lee, G. F. et al., 21.10–678
Makkaveev, N. I. et al., 21.3–743
Paleooceanographic temperatures
Dansgaard, W. et al., 21.4–658
Devereux, I. et al., 21.10–827
Mandra, Y. T., 21.8–527
Paleooceanography
Kes', A. S., 21.9–682
Paleotemperature measurement
Axelrod, D. I. et al., 21.6–242
Paleotemperature measurement techniques
Emiliani, C., 21.12–441
Mandra, Y. T., 21.8–527
Paleotemperature measurements
Stahl, W. et al., 21.3–546
Paleotemperatures
Emiliani, C., 21.12–441
Palmer Drought Index
Havens, A. V., 21.8–415
Palynology
Horowitz, A., 21.12–685
Pan evaporimeter measurements
Louw, W. J. et al., 21.5–563
Parachute weather stations
Simpson, G. J., 21.1–144
Parachute wind profiles
Murrow, H. N., 21.12–40
Particle analysis
Hoidale, G. B. et al., 21.5–257
Particle detection methods
Knight, C. A., 21.6–109
Particle diffusion
Huertas, M. L., 21.12–585
Particle dispersion
Kao, S. K. et al., 21.6–486

Particle dynamics
Kalazhokov, Kh. Kh., 21.11–161
Particle size measurement
McCaldin, R. O. et al., 21.5–269
Particle trajectories
Beliaev, S. P., 21.3–329
Voloshchuk, V. M., 21.3–337
Particle turbulent dispersion
Kao, S. K. et al., 21.1–492
Particle velocities
Kornblum, J. J., 21.1–299
Particulate atmospheric pollution
U. S. National Air Pollution Control Administration, 21.5–298
Particulates in seawater
Folger, D. W., 21.12–237
Passaic River flow
Havens, A. V., 21.8–415
Pasture agrometeorology
Fedoseev, A. P., 21.12–166
Peat bog soils
Visser, S. A., 21.4–399
Penman's equation
Chidley, T. R. E. et al., 21.10–359
Percentage probability forecasts
Bennett, E. S., 21.11–384
Percolation
Prill, R. C., 21.2–564
Percolation rate
Zadneprovskiĭ, R. P., 21.8–499
Perennial ice and snow world inventory
United Nations Educational, Scientific, and Cultural Organization, 21.12–721
Periglacial environment
Pewe, T. L., 21.5–488
Periodicities
Takahashi, K., 21.8–521
Permafrost boundaries
Brown, R. J. E., 21.5–489
Permafrost depth
Brown, R. J. E., 21.5–489
Permafrost distribution
Brown, R. J. E., 21.5–489
Williams, R. B. G., 21.5–490
Permafrost environment
Pewe, T. L., 21.5–488
Permafrost investigations
Brown, R. J. E., 21.6–466
Permafrost topography
Konstantinova, G. S., 21.3–567
Permeable aquifers
Stringfield, V. T. et al., 21.10–731
Peru Current
Samoĭlenko, V. S., 21.10–821
Pesticide environmental pollution
Murray, J. A. et al., 21.6–179
Pesticide pollution of environment
Woodwell, G. M., 21.5–305
Pesticide transport
Murray, J. A. et al., 21.6–179
Pesticides in air
Miles, J. W., 21.11–102
Phase path measurements
Tank, W. G., 21.3–61
Phase state of precipitation
Glazyrin, G. E., 21.11–390
Phenological climatology
Gogorici, E. et al., 21.10–460
Phenological data
Roller, M., 21.6–59
Philippine Weather Bureau
Philippines. Weather Bureau, 21.9–122R
Phosphate compounds in agricultural products
Vylegzhanina, G. F., 21.2–398
Phosphates in seawater
Allen, H. E., 21.11–763
Panova, M. E., 21.9–703
Sugiura, Y., 21.9–704
Phosphorescent wheels
Verploegh, G., 21.2–705
Phosphororganic insecticide DDVF
Sasinovich, L. M., 21.11–475
Phosphorus in seawater
Akiyama, T., 21.5–791
Coste, B., 21.10–807
Yamamoto, K., 21.4–686
Photochemical method
O'Brien, K. G. et al., 2
112
Photochemical theory o
ozone
Crutzen, P. J., 21.5–323
Dütsch, H. U., 21.1–3
21.8–133
Photochemistry of atmo
spheric pollution
Altshuller, A. P., 21
226
Glasson, W. A., 21.12
Urone, P., 21.5–300
Wisse, J. A., 21.12–213
Photochemistry of nigh
airglow
Hesstvedt, E., 21.7–353
Photochemistry of smo
Stephens, E. R. et
21.8–148
Photocolorimetry
Tsendrovskaia, V. A.
al., 21.3–53
Photodissociation processes
Brinkmann, R. T., 2
130
Dalgarno, A., 21.9–497
Photoelectric condensation nuclei counter
Burke, T. P. et al., 2
106
Photoelectric observatio
of the Sun
Weart, S. R. et al., 2
733
Photoelectric photometr
Vanderburgh, R. C., 2
167
Photoelectric photometr
of Mars
McCord, T. B., 21.2–44
Photoelectric pluviomet
Donnadieu, G. et al., 2
665
Photoelectric polarimete
Dietze, G. et al., 21.2–
Photoelectronic process
in upper atmosphere
Banks, P. M., 21.12–277
Photogrammetric ocean
current measurements
Bernini, F. et al., 21.9–
Photographic equipmen
Lufkin, D. H., 21.2–345

Photographic observation of noctilucent clouds
Christie, A. D., 21.7–707
Photographic observation techniques
Fidman, B. A., 21.2–602
Photoionization in ionosphere
Muradov, A. et al., 21.8–193
Photoionization of oxygen
Clark, I. D. et al., 21.10–158
Photoionization rate changes
Muradov, A. et al., 21.8–193
Photometers
Kruglov, R. A., 21.8–75
Photometric airglow observation techniques
Evans, W. F. J. et al., 21.5–457
Photometric airglow observations
Warnecke, G., 21.3–523
Photometric eclipse observations
Chistiakov, V. F., 21.11–571
Photometric methods
Krause, F. R. et al., 21.10–21
Photometric observation of Jupiter
Aksenov, A. N., 21.11–579
Sorokina, L. P., 21.11–595
Photometric observation of Mars
Barabashov, N. P., 21.10–611
Young, A. T., 21.8–749
Photometric observation of solar flares
Dizer, M., 21.9–539
Photometric study of Moon
Berharz, R., 21.11–569
Photon spectra
Trombka, J. I., 21.12–439
Photosphere
Gaujard, P., 21.4–493
Photospheric absorption
Linsky, J. L., 21.10–647
Photospheric activity
Sheeley, N. R., Jr., 21.6–718
Photospheric composition
Bertsch, D. L. et al., 21.7–396
Pande, M. C. et al., 21.2–467
Reames, D. V., 21.12–438
Rogerson, J. B., Jr., 21.6–717
Photospheric granules
Namba, O. et al., 21.8–762
Photospheric inhomogeneities
Margrave, T. E., Jr., 21.9–524
Photospheric magnetic fields
Becker, J. M., 21.1–693
Bumba, V., 21.2–459
Chapman, G. A., 21.1–709
Livingston, W., 21.11–653
Sheeley, N. R., Jr., 21.6–718
Wilcox, J. M., 21.11–657
Photospheric models
Margrave, T. E., Jr. et al., 21.9–524
Pande, M. C. et al., 21.9–525
Wilson, P. R., 21.8–759
Withbroe, G. L., 21.12–652
Photospheric motions
Abdusamatov, H. I. et al., 21.10–646
Photospheric oscillations
Tanenbaum, A. S. et al., 21.7–768
Photospheric spectra
Chapman, G. A., 21.1–709
Grevesse, N., 21.11–664
Schmieder, B., 21.9–526
Withbroe, G. L., 21.8–760
Photospheric temperatures
Noyes, R. W., 21.2–508
Schmieder, B., 21.9–526
Wilson, P. R., 21.8–759
Photospheric turbulence
Badalian, O. G. et al., 21.7–767
Photospheric velocity fluctuations
Deubner, F.-L., 21.8–758
Photosynthesis
Johnson, P. L., 21.12–217
Photosynthesis activity in oceans
Filippov, B. A., 21.9–685
Photosynthesis in oceans
Platt, T., 21.6–352
Photosynthesis of crops
Bedenko, V. P., 21.1–418
Larin, A. P. et al., 21.1–426
Lemon, E. R. et al., 21.5–225
Polevoĭ, A. N., 21.10–466
Wangati, F. J., 21.9–403
Photosynthesis of trees
Malkina, I. S., 21.1–448
Van Hylckama, T. E. A., 21.2–330
Photosynthetically active radiation
Jitts, H. R., 21.6–830
Khazanov, V. S. et al., 21.1–458
Norman, J. M. et al., 21.7–49
Tsel'niker, Iu. L., 21.1–433
Physical geography
Australia. Bureau of Census and Statistics, 21.11–452
Strahler, A. N., 21.10–48R
Physical geography textbooks
Strahler, A. N., 21.11–16
Physical properties of snow cover
Keeler, C. M., 21.7–627
Physics of ice
Glen, J. W., 21.6–804
Granicher, H., 21.8–801
International Symposium on Physics of Ice, 21.7–820
Wolff, H., 21.6–816
Physics of Moon
Akademiia Nauk Ukrainskoĭ SSR, Kiev, 21.9–2R
Physics of water drops
Deriagin, B. V. et al., 21.2–248
Physiologic climates
Padmanabhamurthy, B., 21.7–692
Physiological climatology
Adamenko, V. N., 21.7–687
Auliciems, A., 21.7–688
Leidreiter, W., 21.7–682

- Piggott, M. R., 21.4–254
- Schmidt-Kessen, W., 21.8–557
- Tromp, S. W., 21.2–310; 21.7–695

Physiological processes
- Crafts, A. S., 21.5–546

Physiological response to electricity
- Orville, R. E., 21.8–632

Phytoclimatology
- Savin, St., 21.5–118

Phytogeography
- Ouellet, C. E., 21.8–555

Phytoplankton ecology
- Bibik, V. A., 21.2–677

Pilot balloon observations
- Monahan, H. H. et al., 21.3–607

Piccardi chemical tests
- Eichmeier, J., 21.11–280
- Verfaillie, G. R. M., 21.8–566

Piezometric surface
- Obbink, J. G., 21.10–735

Pilot balloon data calculations
- Il'in, B. M. et al., 21.7–22

Pilot balloon soundings
- Szepesi, D., 21.6–506

Pilot–spheres method
- Mikhel', V. M., 21.6–61

Pilot weather briefing
- Hovey, R. L., 21.12–175

Planetary altitudinal frontal zone
- Mdinaradze, D. A. et al., 21.10–105

Planetary astrophysics symposia
- Kliore, A. J., 21.9–485

Planetary atmosphere dynamics
- Hide, R., 21.4–482

Planetary atmosphere investigation techniques
- Sommer, S. C. et al., 21.7–753

Planetary atmosphere structure
- Trafton, L. M. et al., 21.4–484

Planetary atmosphere symposia
- Conference on Planetary Atmospheres, 21.5–701

Planetary atmospheres
- Lenoble, J., 21.4–370
- Pollack, J. B., 21.6–698
- Sagan, C., 21.6–699
- Siewert, C. E., 21.7–340

Planetary atmospheric absorption
- Chamberlain, J. W., 21.6–697

Planetary atmospheric chemistry
- Birnbaum, A., 21.6–696
- Dalgarno, A. et al., 21.5–703

Planetary atmospheric circulation
- Macdonald, N. J., 21.3–433

Planetary atmospheric investigations
- Welsh, H. L., 21.4–486

Planetary atmospheric motions
- Blinova, E. N., 21.7–261

Planetary atmospheric radiative transfer
- Fymat, A. L. et al., 21.4–140, –141

Planetary atmospheric research
- Goody, R., 21.5–702

Planetary boundary layer
- Brown, R. A., 21.11–167
- Clarke, J. F., 21.11–482
- Fortak, H., 21.6–266
- Golitsyn, G. S., 21.8–732
- Hanna, S. R., 21.1–360; 21.6–194

Planetary circulation
- Huss, A. et al., 21.3–431

Planetary contaminants
- Alexander, M., 21.3–697

Planetary cosmogony
- Wildt, R., 21.5–705

Planetary electrodynamics
- Ishikawa, H. et al., 21.10–56

Planetary evolution
- Wildt, R., 21.5–705

Planetary influences
- Liese, R., 21.4–761

Planetary influences on sunspots
- Ferris, G. A. J., 21.6–722

Planetary infrared absorption
- Welsh, H. L., 21.4–486

Planetary magnetic fields
- Claerbout, J. F., 21.4–429

Planetary magnetohydrodynamics
- Hide, R., 21.4–482

Planetary meteorology
- Golitsyn, G. S., 21.8–732

Planetary physics
- Akademiia Nauk Ukrainskoĭ SSR, Kiev, 21.9–2

Planetary probes
- Reiff, G. A., 21.11–559
- Sommer, S. C. et al., 21.7–753

Planetary radiation
- Samuelson, R. E., 21.6–384

Planetary spectra
- Chamberlain, J. W., 21.6–697
- Uesugi, A. et al., 21.4–48

Planetary spectra analysis
- Welsh, H. L., 21.4–486

Planetary temperatures
- Pollack, J. B., 21.6–698

Planetary textbooks
- Teifel', V. G., 21.8–750

Planetary upper atmospheres
- Henry, R. J. W., 21.5–704

Planetary wave motion
- Hirota, I. et al., 21.6–293

Planetary waves
- Pandolfo, J. P., 21.3–340

Planetary waves in the ocean
- Longuet-Higgins, M. S., 21.12–10R

Plant–air temperature gradients
- Solodovnikova, A. P., 21.1–97

Plant chemistry
- Ter Haar, G. L., 21.3–703

Plant cover light intensities
- Idso, S. B. et al., 21.7–324

Plant cover temperature contrasts
- Orlov, V. N., 21.2–335

Plant diseases
- Berbecel, O. et al., 21.8–533

Plant ecology
- Jeník, J. et al., 21.7–321
- Nederlandse Centrale Organisatie voor Toege-

past–Natuurwetenschappelijk Onderzoek, 21.8–494
Rusu, F., 21.7–694
Plant evapotranspiration
Yao, A. Y. M., 21.5–570
Kuz'min, P. P. et al., 21.5–561
Plant growth
Gates, C. T., 21.5–547
Kozlowski, T. T., 21.4–250
Lazarev, D. N. et al., 21.1–427
Plant micrometeorology
Cowan, I. R., 21.1–50
Plant pathology
Berbecel, O. et al., 21.8–533
Plant photosynthesis
Mokievskiĭ, K. A., 21.1–459
Plant physiology
Thom, A. S., 21.2–309
U. S. Agricultural Res. Serv., Calif., 21.1–556
Plant research institute, Canada
Ottawa, Canada. Plant Research Inst., 21.9–121R
Plant terminology
Taylor, S. A., 21.3–699
Plant tissues
Barrs, H. D., 21.5–544
Cowan, I. R. et al., 21.3–700
Plant transpiration
U. S. Agricultural Res. Serv., Calif., 21.1–556
Plant water economy
Blackie, J. R. et al., 21.9–351
Blake, G. J. et al., 21.10–422
Dagg, M. et al., 21.9–354
Dainty, J., 21.4–513
De Roo, H. C., 21.8–486
Ehrler, W. L., 21.1–553
Fordham, R., 21.10–361
Gavande, S. A., 21.2–399
Riley, J. J., 21.1–657
Wangati, F. J., 21.9–362
Willatt, S. T., 21.9–363
Plant–water relationships
More, R. J., 21.1–655
Plasma diffusion
Kopecky, M. et al., 21.3–731
Plasma instabilities
Smith, A., 21.2–151
Tademaru, E., 21.11–565
Plasma physics
Iukhimuk, A. K. et al., 21.4–489
Makhan'kov, V. G. et al., 21.5–359
Prakash, S., 21.10–180
Plasma spectroscopy
Gross, B. et al., 21.1–5
Marr, G. V., 21.1–13
Plasma turbulence in astrophysics
Kirvorutskiĭ, E. N. et al., 21.9–467
Plasma wave propagation
McLellan, A., IV, 21.6–727
Plasma waves
Nikolaev, Iu. M., 21.3–691
Plasmapause–geomagnetic activity relationships
Chappell, C. R. et al., 21.6–246
Plasmapause in magnetosphere
Gringauz, K. I., 21.8–211
Harris, K. K. et al., 21.6–248
Samokhin, O. V., 21.4–74
Taylor, H. A., Jr. et al., 21.10–493
Playa hydrology
Lotspeich, F. B., 21.2–611
Pleistocene climate
Bigarella, J. J. et al., 21.6–647
Ericson, D. B. et al., 21.10–453
Haude, W., 21.2–303
Pleistocene deposits
Bigarella, J. J. et al., 21.6–647
Pleistocene ocean temperatures
Ericson, D. B. et al., 21.10–453
Pleistocene sea levels
Haude, W., 21.2–303
Plowing effects on soil aeration
Galeva, V. et al., 21.9–463
Plowing–runoff effects
Surmach, G. P. et al., 21.9–340
Plume behavior
Mery, P., 21.6–286
Plume rise models
Briggs, G. A., 21.6–483; 21.8–218
Bringfelt, B., 21.7–480
Němec, L., 21.7–485
Shirvaikar, V. V. et al., 21.1–498
Plumes
Bordurtha, F. T. et al., 21.6–482
Briggs, G. A., 21.10–226
Bringfelt, B., 21.5–237; 21.7–480
Carson, J. E., 21.7–482
Fay, J. A. et al., 21.3–597
Hoult, D. P. et al., 21.3–598
Johnson, W. B., Jr. et al., 21.10–141
Santomauro, L., 21.1–497
Tang, C. M., 21.11–241
Telford, J., 21.1–544
Plutonium fallout
Miyake, Y. et al., 21.12–346
Plutonium in seawater
Miyake, Y. et al., 21.4–688; 21.12–346
Point discharge from trees
Hutchinson, W. C. A. et al., 21.7–65
Point discharge measurements
Hutchinson, W. C. A. et al., 21.7–65
Point rainfall intensities
Brunet-Moret, Y., 21.7–595
Fogel, M. M., 21.7–615
Lautzenheiser, R. E. et al., 21.10–392
Point source diffusion
Barry, P. J., 21.5–235
Budzinski, K., 21.7–249
Chatwin, P. C., 21.1–491
Chaudhry, F. H. et al., 21.9–258
Elderkin, C. E., 21.12–361
Iordanov, D., 21.7–252
Meroney, R. N. et al., 21.1–371
Nickola, P. W., 21.12–362

Pasquill, F., 21.1–496
Tait, G. W. C., 21.4–208
Wippermann, F., 21.5–505
Wojciechowski, K., 21.5–304

Poisson equation solution
Glahn, H. R., 21.3–252

Poisson's equations
Rousseau, D., 21.7–230
Trosnikov, I. V., 21.1–229

Poisson's law
Patel', H. I. et al., 21.5–33

Polar auroras
Giorgi, M. et al., 21.2–370
Maeda, K., 21.3–352

Polar cap
Velinov, P., 21.7–424

Polar cap absorption
Belikovich, V. V. et al., 21.8–162
Driatskiĭ, V. M., 21.12–295
Hultqvist, B., 21.6–228
McCormac, B. M., 21.8–190
U. S. Air Force. Cambridge Res. Lab., Bedford, Mass., 21.2–80

Polar cap absorption forecasting
Wong, M. S., 21.4–421

Polar cap absorption–night airglow relationships
Alcayde, D., 21.7–348

Polar cap auroras
Eather, R. H. et al., 21.9–444
Lassen, K., 21.10–514

Polar climate acclimatization
Matusov, A. L. et al., 21.5–672

Polar F-region
Bratteng, O. M. et al., 21.1–330
Duncan, R. A., 21.9–155

Polar F2-region
Challiner, R. A., 21.2–67

Polar flights
Korff, S. A., 21.4–393

Polar front
Yoshino, M. M., 21.6–303

Polar front jet stream
Reiter, E. R. et al., 21.5–523

Polar glow auroras
Lassen, K., 21.10–514

Polar ice–climate effects
Fletcher, J., 21.12–572
Pogosian, Kh. P., 21.6–300

Polar ice studies
Dansgaard, W. et al., 21.8–526

Polar ionosphere
Hessler, V. P., 21.7–187
Jelly, D. H. et al., 21.7–191
Maeda, K., 21.3–352
Valinov, P., 21.2–81

Polar ionospheric ionization
Velinov, P., 21.7–424

Polar magnetic storms
Fukushima, N., 21.11–507

Polar magnetic substorms
Bonnevier, B. et al., 21.8–611
Pudovkin, M. I. et al., 21.10–288

Polar meteorology
Borisenkov, E. P. et al., 21.9–46
Rusin, N. P., 21.9–72R

Polar research
Symposium on Remote Sensing in the Polar Regions, Easton, Md., 21.8–17

Polar stations
Polarforschung [Kiel], 21.1–125

Polar storms
Beliakova, S. I. et al., 21.1–374

Polar stratosphere
Mahlman, J. D., 21.3–353

Polar temperatures
Loewe, F., 21.11–306

Polar thermosphere
Poloskov, S. M. et al., 21.9–251

Polar tides
Sarukhanian, E. I., 21.10–836

Polar tropopause
Ramanadham, R. et al., 21.6–197

Polar wind
Banks, P. M., 21.7–210
Dessler, A. J. et al., 21.3–384

Polarimeters
Hariharan, T. A., 21.8–2
Wiehr, E., 21.5–714

Polarimetric investigatio of Mars
Dollfus, A. et al., 21.8–74

Polarization
Rozenberg, G. V., 21.
686

Polarization of dust scattered light
Foitzik, L., 21.7–704
Plass, G. N., 21.7–712

Polarization of geomagnetic pulsations
Al'perovich, L. S. et a
21.5–738

Polarization of light fro clouds
Plass, G. N. et al., 21.
712

Polarization of lunar rad emission
Alekseev, V. A. et a
21.4–457
Losovskiĭ, B. Ia., 21.4–45

Polarization of outgoing radiation
Livshits, G. Sh., 21.8–59

Polarization of planets
Hall, J. S. et al., 21.7–75

Polarization of radar echoes
Chernikov, A. A. et al
21.1–110

Polarization of reflected light
Nagaraja Rao, C. R. e
al., 21.8–594, –595

Polarization of reflected radiation
Fernald, F. G. et al., 21.8
590
Hariharan, T. A., 21.10
488

Polarization of satellite transmissions
Cherkas, V. U. et al.
21.7–177

Polarization of sky radiation
Foitzik, L., 21.12–423
Khrulev, V. V., 21.8–592

Polarization of solar radi emissions
Feix, G., 21.8–719
Ramaty, R., 21.12–598

Warwick, J. W. et al., 21.7–749
Polarization of submarine illumination
Timofeeva, V. A., 21.9–687
Polarization of twilight sky
Dietze, G., 21.10–487
Polarization of ultraviolet radiation
Coulson, K. L., 21.12–414
Polarization of X-rays
Elwert, G., 21.3–526
Polarization–thunderstorm electricity relationships
Mendez, D. J., 21.7–711
Polarized cosmic radiation
Tsytovich, V. N., 21.3–715
Polarized light reflection
Rvachev, V. P. et al., 21.2–344
Polarographic methods in oceanography
Berge, H., 21.12–748
Polish Hydrometeorological Service
Parczewski, W., 21.9–11
Polish Spitsbergen Expedition 1957–1960
Siedlecki, S., 21.9–39
Pollen analysis
Coetzee, J. A., 21.1–23
Davis, M. B., 21.4–324
Frank, A. H. E. et al., 21.8–523
Pollen dispersal by wind
Christie, A. D., 21.7–501
Pollution control
Sanitary and Water Resources Engineering Conference, 6th, Nashville, Tenn., 21.12–655
Pollution control laws
Degler, S. E., 21.4–410
Pollution control programs
Degler, S. E. et al., 21.4–409
Pollution effects on eyes
Altshuller, A. P., 21.12–226
Pollution–forestry damage effects
Lux, H., 21.6–177
Pollution–health effects
Straus, H., 21.5–290
Pollution–population effects
Tkachev, P. G. et al., 21.5–291
Pollution–visibility effects
Eggleton, A. E. J., 21.5–246
Garland, J. A., 21.5–249
Polyethylene balloons
Hauser Research and Engineering Co., Boulder, Colo., 21.3–131
Pond hydrology
Manson, P. W. et al., 21.4–259
Pond temperatures
Dubinina, V. G., 21.5–494
Rakusa-Suszczewski, S., 21.6–788
Wawrik, F., 21.7–813
Pond water composition
Rakusa-Suszczewski, S., 21.6–788
Pond water transparency
Wawrik, F., 21.7–813
Popular astronomy books
Kesarev, V. V., 21.4–472
Popular meteorology
Budyko, M. I., 21.4–323
Popular meteorology books
Battan, L. J., 21.2–43
Stone, A. H., 21.8–329
Popular meteorology textbooks
Schuuring, C., 21.5–19
Popular oceanography
Marx, W., 21.3–759
Popular science books
Rosenfeld, S., 21.8–7
Popular space science books
Moore, P., 21.8–708
Portable weather units
Harrington, W., 21.6–95
Postfrontal subsidence
Skoda, G., 21.12–464
Postglacial climates
Jungerius, P. D., 21.9–373
Postmonsoon season
Indian Journal of Meteorology and Geophysics [Delhi], 21.6–54
Potato crop yield forecasting
Stepanov, N. D., 21.12–178
Potato cultivation
Soltanpour, P. N. et al., 21.7–319
Tauberbiller, E. A., 21.1–54
Vlasova, V. A., 21.9–402
Potato phenology
Rosca, V., 21.6–432
Potatoes
Burrows, F. J., 21.9–276
Potential energy
Hastenrath, S. L., 21.6–268
Langlois, W. E., 21.3–454
Pfeffer, R. L., 21.2–83
Potential energy generation
Widger, W. K., Jr., 21.1–399
Potential energy–kinetic energy conversion
Brown, J. A., Jr., 21.11–253
Potential energy of storms
Johnson, D. R., 21.11–221
Potential evaporation calculation
Morton, F. I., 21.7–534
Trusov, I. I., 21.6–551
Potential evaporation charts
Trusov, I. I., 21.6–551
Potential evapotranspiration
Jensen, M. E., 21.7–529
Skidmore, E. L. et al., 21.6–549
Potential evapotranspiration calculations
Ferland, M., 21.10–360
Ojo, O., 21.5–564
Potential evapotranspiration estimation
Behnke, J. J. et al., 21.6–540
Omar, M. H., 21.10–363
Potential gradient
Kamra, A. K., 21.3–695
Potential gradient measurement
Choudhuri, R., 21.11–502
Gathman, S. G., 21.11–503
Gualtieri, G., 21.4–377
Potential gradient measurement techniques
Riekert, H., 21.12–119

Potential gradient observations
Expédition Antarctique Belgo–Néerlandaise, 1964, 21.8–598
Gherzi, E., 21.1–32; 21.7–33
Kline, J. C. et al., 21.8–604
Potential gradient variations
Bhartendu, —, 21.8–603
Choudhuri, R., 21.11–502
Kamra, A. K., 21.4–378, –379
Makhotkin, L. G., 21.8–605
Potential gradient–wind speed relationships
Kamra, A. K., 21.4–378
Potential vorticity
Danielsen, E., 21.12–285
Potsdam Meteorological Observatory
Germany (Democratic Republic). Meteorologischer Dienst, 21.7–2
Potsdam Observatory
Skeib, G., 21.10–39
Power plant cooling systems
Rosenberg, H. B., 21.11–756
Power spectrum analysis
Maynard, H. W., 21.12–25
Prairies, North America
Costello, D. F., 21.8–537
Precipitable water
Starr, V. P. et al., 21.6–535
Precipitation
Barry, R. G., 21.1–600
Kapovits, A., 21.3–87
Kostarev, V. V. et al., 21.3–659
Lowry, D. A. et al., 21.4–252
Precipitation anomalies
Fletcher, R. J., 21.7–612
Precipitation at sea
Jacobs, W. C., 21.2–259
Precipitation calculations
Isaev, A. A., 21.7–602
Sirotenko, O. D., 21.3–662; 21.6–605
Precipitation cartography
Otto, G., 21.7–603
Precipitation characteristics
Kulakovskaia, M. Iu. et al., 21.8–383
Precipitation charts
Gagnon, R. M., 21.10–385
Kodrau, O. D., 21.5–608
Korte, A. F. et al., 21.5–609
U. S. Air Weather Service, 21.8–391
U. S. Weather Bureau, 21.1–609
Precipitation chemical composition
Posokhov, E. V., 21.12–531
Precipitation climatology
Strojie, W. F., 21.2–260
Precipitation control
Buĭkov, M. V., 21.5–200
Precipitation correlations
Polishchuk, A. I., 21.5–619
Precipitation–crop effects
Dmitrenko, V. P., 21.12–568
Yao, A. Y. M., 21.5–621
Precipitation data
Hohenpeissenberg, Bavaria. Meteorologische Observatorium, 21.7–586
Kangieser, P. C., 21.6–52
Kulakovskaia, M. Iu. et al., 21.8–383, –393
Oregon. State Water Resources Board, 21.8–379
Rozova, E. S., 21.8–404
Weedfall, R. O., 21.8–419
Precipitation data, Africa
Lebedev, A. N., 21.9–52R
Precipitation data, Finland
Finland. Ilmatieteen Laitos, 21.9–201R
Precipitation data, Poland
Poland. Panstwowy Instytut Hydrologiczno-Meteoroligiczny, 21.11–72R
Precipitation data analysis
Julian, P. R., 21.11–20
Junghans, H., 21.3–657
Levedev, A. N., 21.6–597
Llamas, J., 21.7–588
Saldarriaga, J., 21.11–383
Todorovic, P. et al., 21.5–610
Verschuren, J. P., 21.8–399
Precipitation days
Varbanets, T. V., 21.9–306
Precipitation distribution
Alibegova, Zh. D., 21.9–3R
Boliaev, M. D., 21.12–533
Egorova, A. Iu., 21.7–597
Garcia, E., 21.7–598
Gazzola, A., 21.7–599
Hendrick, R. L., 21.12–100
Isaev, A. A., 21.7–602
Stepanenko, V. D., 21.9–86R
Summersby, W. D., 21.6–606
Precipitation distribution analysis
Golubtsov, V. V., 21.12–534
Polishchuk, A. I., 21.9–312
Precipitation duration
Kulakovskaia, M. Iu. et al., 21.8–393
Precipitation duration calculation
Aframeeva, I. A., 21.7–604
Precipitation during summer
Bachurina, A. A., 21.12–50
Precipitation effects on drainage network
Williams, R. E. et al., 21.7–800
Precipitation effects on vegetation
Beatley, J. C., 21.8–374
Precipitation estimation
Brock, E. B., 21.5–545
Mansurova, E. P. et al., 21.3–661
Schwarz, F. K. et al., 21.8–412
Precipitation extremes
Marx, S., 21.8–403
Precipitation forecast
Shushevskaia, G. M., 21.3–261
Precipitation forecast evaluation
Burns, L. M. D., 21.11–128
Hughes, L. A., 21.1–257
Philpot, J. W. et al., 21.8–105
Precipitation forecast verification
Glahn, H. R. et al., 21.7–95; 21.11–129

Precipitation forecasting
Bennett, E. S., 21.11–384
Davis, N. E., 21.9–85
Korte, A. F. et al., 21.5–609
Precipitation formation
Browning, K. A. et al., 21.1–397
Buĭkov, M. V., 21.10–372; 21.12–494
Das, P., 21.10–382
Diem, M., 21.6–601
Glushkova, N. I., 21.11–380
Hobbs, P. V. et al., 21.9–202
Krasnogorskaia, N. V., 21.9–301
Latham, J., 21.9–294
Lebedev, S. L., 21.5–613
List, R. et al., 21.1–607
Neumann, J. et al., 21.8–127
Phillips, B. B., 21.5–614
Precipitation formation
Simpson, J. et al., 21.5–600
Sulakvelidze, G. K., 21.9–88R
Uchida, E., 21.7–569
Precipitation frequency data
Brown, D. M., 21.5–84
Rozova, E. S., 21.8–404
Precipitation frequency distribution
Dyer, T. G. J., 21.10–386
U. S. Weather Bureau, 21.1–609
Precipitation gage comparisons
Hoehne, W. E., 21.8–68
Precipitation gage recording verification
De Byle, N. V. et al., 21.6–89
Precipitation–groundwater effects
Rasmussen, S., 21.3–643
Precipitation–groundwater relationships
Martin, E. C., 21.8–453
Precipitation–humidity relationships
Budashkina, L. V., 21.12–453
Precipitation in Azerbaidzhan
Kharchilava, F. T., 21.10–391
Precipitation instruments
Rodda, J. C., 21.1–191
Precipitation intensities
Alibegova, Zh. D., 21.11–2R
Precipitation intensity
Dufresne, R., 21.10–369
Precipitation intensity calculations
Sorochan, O. G., 21.9–304
Precipitation measurement
Korotaev, G. A., 21.12–46
Precipitation measurement errors
Deiji, L. J. L., 21.5–133
Findlay, B. F., 21.3–656
Karbaum, H., 21.5–137
Markovich, M. L. et al., 21.4–281
Rodda, J. C., 21.1–191
Precipitation measurement instrumentation
Reiter, R., 21.1–186
Precipitation measurement techniques
Konstantinov, A. R., 21.10–28R
Sulakvelidze, G. K. et al., 21.1–610
Precipitation measurements
Charoen-Rajapark, C., 21.8–349
Pleiss, H., 21.6–93
Precipitation microphysics
Koo, C. C. et al., 21.1–10
Precipitation models
Liu, J. Y. et al., 21.4–275
Precipitation modification
Kiriukhin, B. V. et al., 21.5–206
Precipitation networks
Brissett, D. T., 21.1–123
Deiji, L. J. L., 21.5–133
Ostby, F. P. et al., 21.1–124
Precipitation normals
Schirmer, H., 21.7–667
Precipitation over oceans
Andersson, T., 21.7–608
Precipitation particle size measurements
Knollenberg, R. G., 21.6–87
Precipitation patterns
Bodolai, I. et al., 21.9–302
Precipitation periodicities
Bhargava, B. N. et al., 21.9–314
Drozdov, O. A. et al., 21.4–91; 21.7–611
Walters, E. V., 21.8–400
Precipitation physics
Das, P., 21.10–382
Diem, M., 21.6–601
Kessler, E., 21.6–532
Precipitation probabilities
Augulis, R. P., 21.8–370
Korte, A. F. et al., 21.5–609
Penn, J. B. et al., 21.8–381
Tunisia. Service de la Météorologie Nationale, 21.1–608
Varbanets, T. V., 21.9–306
Precipitation probability
Augulis, R. P., 21.8–371, –372, –373
Miller, M. E. et al., 21.2–262
Texas. Agricultural Experiment Station, College Station, 21.6–599
Yao, A. Y. M., 21.7–592
Precipitation probability calculations
Golubtsov, V. V., 21.12–534
Precipitation probability forecasting
Glahn, H. R. et al., 21.7–95
Hughes, L. A., 21.1–257
Precipitation–radar attenuation effects
Strickland, J. I. et al., 21.9–300
Precipitation–radio wave propagation effects
Carey, R. B. et al., 21.9–47
Usikov, A. Ia. et al., 21.5–611
Precipitation rates
Bollay, E., Associates, Inc., Santa Barbara, Calif., 21.11–375
Precipitation recorders
Kohl, F. V., 21.6–92
Precipitation regime
Antonov, V. S., 21.11–382

Egorova, A. Iu., 21.7–597
Miller, J. F., 21.7–606
Nazarova, I. V., 21.11–401
Yao, A. Y. M., 21.7–592

Precipitation–runoff calculations
Podvishenskaia, N. Ia., 21.10–36R

Precipitation–runoff relationships
Beczely, G., 21.4–282
Georgiev, S. G., 21.8–396
Mel'nikova, Z. D., 21.9–56R
Sosedov, I. S., 21.3–663
Van Montfort, M. A., 21.5–612

Precipitation–soil moisture relationships
Kel'chevskaia, L. S., 21.7–653
Yao, A. Y. M., 21.5–621

Precipitation statistics
Junghans, H., 21.3–657

Precipitation–streamflow relationships
Ćechová, I., 21.6–632
Christiansen, J. E., 21.8–375
Glukh, I. S., 21.9–199
Malik, L. K., 21.9–308
Ratkovich, D. Ia., 21.9–309
Stachy, J. et al., 21.2–280

Precipitation studies
Colorado State Univ., 21.1–602
Gorelik, A. G. et al., 21.1–606

Precipitation through forests
Anderson, R. C., 21.3–505

Precipitation trends
Barry, R. G., 21.1–611

Precipitation type forecasting
Smith, M. F., 21.11–391

Precipitation variability
Shveĭkin, Iu. V., 21.9–310

Precipitation variations
Chiriac, V. et al., 21.3–552
Ratkovich, D. Ia., 21.9–309
Stoenescu, St. M. et al., 21.5–620

Precipitation–wind relationships
Srivastava, R. C. et al., 21.8–382

Prehistoric climates
Blake, I., 21.7–671

Premonsoon thunder squalls forecasting
Jayaram, M., 21.9–106

Premonsoon thunderstorms
Kundu, M. M. et al., 21.5–58

Prescribed burns
Sando, R. W., 21.9–263

Pressure charts, 700-mb
Wahl, E. W. et al., 21.9–79

Pressure correlations
Martem'ianov, V. I., 21.2–218
Smirnov, N. P. et al., 21.7–282

Pressure data
Harley, W. S., 21.11–55

Pressure data statistical analysis
Čechová, E. et al., 21.1–474

Pressure distribution
Rudloff, W., 21.5–498

Pressure effects on cosmic rays
Kaminer, N. S., 21.9–232

Pressure effects on sea level
Izozaki, I., 21.6–322

Pressure effects on water waves
Polianskaia, V. A., 21.12–809

Pressure estimates from satellites
Smith, W. L., 21.2–220

Pressure extremes
Court, A., 21.3–581
Loewe, F., 21.6–473
Zwart, B., 21.4–188

Pressure field analysis
Belousov, S. L. et al., 21.5–155
Martem'ianov, V. I., 21.2–218

Pressure field calculations
Repinskaia, R. P., 21.3–576

Pressure field charts
Rudloff, W., 21.5–498

Pressure field forecasting
Maksimov, I. V., 21.7–101
Nicholls, J. M. et al., 21.8–82

Pressure fields
Flocchini, G., 21.3–577

Pressure in clouds
List, R. et al., 21.6–584

Pressure instruments
Karpusha, V. E., 21.9–60
Lichfield, E. W., 21.5–120

Pressure oscillations
Kusano, K. et al., 21.6–47

Pressure patterns
Hay, R. F. M., 21.11–123
Yoshino, M., 21.8–328

Pressure profile measurements
Mount, W. D., 21.12–37

Pressure profiles
Faust, H., 21.3–311

Pressure pulse calculations
Troutman, W. W., 21.8–637

Pressure reduction techniques
Afinogenov, L. P., 21.8–20

Pressure reduction to sea level
Afinogenov, L. P., 21.8–20

Pressure–sphere anemometer
Thurtell, G. W., 21.11–90

Pressure–temperature calculations
Smith, W. L., 21.7–463

Pressure variations
Cole, J. D. et al., 21.3–578

Pressure wave propagation
Reed, J. W., 21.11–333

Pressure–wave thunderstorm relationships
Murty, R. C. et al., 21.5–497

Pressure waves
Čechová, E. et al., 21.1–474

Pressure waves from nuclear explosions
Reed, J. W., 21.11–333
Tolstoy, I. et al., 21.6–271, –472

- **Pressure waves–ionospheric disturbances relationships**
  - Herron, T. J. et al., 21.6–226
- **Pressure–wind field relationships**
  - Panchev, St., 21.1–529
- **Pressure–wind relationships**
  - Bayer, K. et al., 21.6–290
  - Belinskiĭ, O. N., 21.1–515
  - Kagan, R. L., 21.2–221
  - Kopacek, J., 21.7–87
  - Nania, A., 21.5–516
  - Rodewald, M., 21.2–27
  - Romanov, Iu. A. et al., 21.3–602
  - Sadokov, V. P., 21.7–465
  - Swinbank, W. C., 21.10–338
  - Veselov, E. P., 21.12–481
- **Primary cosmic ray variations**
  - Nikolaev, Iu. M., 21.12–437
- **Primary hydrogen nuclei**
  - Puri, R. K. et al., 21.3–541
- **Primary production**
  - Nehring, D., 21.12–747
- **Primary production in sea-water**
  - Angot, M., 21.1–744
  - Platt, T., 21.6–352
- **Primitive hydrodynamic equations**
  - Bykov, V. V., 21.8–88
- **Probabilities in meteorology**
  - Cummings, R. L., 21.1–63
  - Zavarina, M. V. et al., 21.5–25
- **Probability calculations**
  - Shenton, L. R., 21.11–21
- **Probability forecasting**
  - Alekseev, G. A., 21.10–104
  - Chase, P. P., 21.4–105
  - Karpeev, G. A., 21.12–170
  - Khvalenskiĭ, Iu. A., 21.3–259
  - Ran'kova, E. Ia., 21.3–281
  - Ter-Mkrtchian, M. G., 21.12–173
  - Winkler, R. L. et al., 21.6–131
- **Probability forecasting evaluation**
  - Epstein, E. S., 21.8–111
  - Murphy, A. H., 21.5–183
  - Rubinshteĭn, M. V., 21.8–116
  - Winkler, R. L. et al., 21.6–131
- **Probability maximum precipitation**
  - Schwarz, F. K. et al., 21.8–412
- **Probability models**
  - Goodridge, J. D., 21.2–299
- **Probability precipitation forecasting**
  - Knox, J. L., 21.7–97
  - Philpot, J. W. et al., 21.8–105
  - Ter-Mkrtchian, M. G. et al., 21.12–161
- **Probability theory**
  - Venetis, C., 21.4–605
- **Probing techniques**
  - Ishimaru, A., 21.3–80
- **Progress in cloud seeding**
  - Kahan, A. M. et al., 21.1–268
- **Progress in hydrology**
  - Heindl, L. A., 21.9–558
- **Progress in meteorology**
  - American Meteorological Society, 21.12–2
  - *World Meteorological Association, WMO Bulletin,* 21.1–88
- **Progress in weather control**
  - Studer, T. A., 21.7–114
- **Progress reports**
  - Adelaide, South Australia. Univ. Waite Agri. Res. Inst., 21.3–701
- **Prognostic chart preparation**
  - Del Trono, F., 21.7–75
- **Project fog drops**
  - Pilie, R. J., 21.4–268
- **Project ITREX (Illinois Tracer Experiment)**
  - Illinois. State Water Survey, Univ. of Illinois, Urbana, 21.11–276
- **Project Prairie Grass**
  - Klug, W., 21.1–368
- **Project Scanner**
  - House, F. B. et al., 21.4–170
- **Project Skyhook**
  - Raven Industries, Inc., Sioux Falls, S. D., 21.12–61
- **Project Skywater**
  - Kahan, A. M. et al., 21.8–126
  - Skywater Conference, 3rd, Denver, Colo., Feb. 1968, 21.11–132
  - Skywater Conference, 4th, Denver, Colo., May 21–28, 1968, 21.10–131
  - U. S. Office of Atmospheric Water Resources, 21.8–129
- **Project Sterling**
  - Armstrong, R. H. et al., 21.3–3
- **Project Stormfury**
  - *Environmental Science and Technology* [Wash., D. C.], 21.8–118
  - Gentry, R. C., 21.3–299; 21.10–121
  - Senn, H. V., 21.11–269
- **Project Stormfury reports**
  - *ESSA News* [Rockville, Md.], 21.5–210
- **Project TOPCAT**
  - Spillane, K. T., 21.6–481
- **Project Whitetop**
  - Lovasich, J. L. et al., 21.7–123
  - Tribus, M., 21.1–261
- **Proton bursts**
  - Fortini, T. et al., 21.2–454
- **Proton energy spectrum**
  - Bernstein, W. et al., 21.11–289
- **Proton flare analysis**
  - Krivsky, L., 21.2–487; 21.11–634, –635
- **Proton flare regions**
  - Fortini, T. et al., 21.2–482
- **Proton flares**
  - Donnelly, R. F., 21.2–69
  - Krivsky, L., 21.11–633, –636
  - Sakurai, K., 21.7–384
  - Sawyer, C., 21.2–474
  - Svestka, Z., 21.1–704; 21.11–640, –641

Proton flux measurements
  Ageshin, P. N. et al., 21.8–256
Proton precipitation
  Eather, R. H., 21.7–350
Protonosphere–ionosphere energy exchanges
  Rao, B. C. N. et al., 21.7–212
Protonospheric heating
  Hollweg, J. V., 21.2–142
  Mahajan, K. K. et al., 21.4–172
  Rao, B. C. N. et al., 21.7–213
Protonospheric temperatures
  Hollweg, J. V., 21.2–142
  Mahajan, K. K. et al., 21.4–172
  Rao, B. C. N. et al., 21.7–212
Psychrometer errors
  Alianchikova, G. N. et al., 21.5–127
Psychrometers
  Bosua, T. A., 21.3–180
  Cotton, R. F., 21.6–84
  Yonts, W. L., Jr., 21.10–80
Psychometric constant
  Alianchikova, G. N. et al., 21.5–127
Psychrometry theories
  Bernard, E., 21.8–66
Public weather services
  Maunder, W. J., 21.1–213
  Thomas, C., 21.2–35
Pulsating auroras
  Ivifte, G. J. et al., 21.9–446
  Omholt, A. et al., 21.10–519
Pyranometer calibration
  Marsh, V., 21.6–74
Pyranometers
  Abashina, E. V., 21.3–513
  Brounshteĭn, A. M. et al., 21.1–167
  Hoehne, W. E., 21.9–54
  Kozyrev, B. P., 21.3–181
  Lebedeva, K. D. et al., 21.3–182
  Wilska, M. G., 21.6–75
Pyrethrin content of pyrethrum
  Muturi, S. N., 21.10–463
Pyrgeometers
  Kostianoĭ, G. N., 21.5–107
  Mamaenko, G. E. et al., 21.1–173
Pyrheliometer accuracy
  Klevantsova, V. A., 21.8–56
Pyrheliometer comparisons
  Sakhanov, V. V., 21.1–174
Pyrheliometers
  Klevantsova, V. A. et al., 21.8–55

Q

Quantitative precipitation forecasting
  Hovind, E. L. et al., 21.1–241
  Kwizak, M. et al., 21.5–166
  Skoda, G., 21.9–93; 21.12–150
  Uspenskiĭ, B. D., 21.11–113
Quantitative rainfall forecasting
  Cochemé, J., 21.5–190
Quartz nuclei
  Peterson, J. T. et al., 21.8–144
Quasi-biennial precipitation oscillations
  Bhargava, B. N. et al., 21.9–314
Quasi-biennial pressure variations
  Murray, R. et al., 21.5–499
Quasi-biennial variations
  Angell, J. K., 21.11–260
  Hopwood, J. M., 21.6–518
  Schove, D. J., 21.9–268
  Wallace, J. M. et al., 21.3–438
Quasi-geostrophic approximation
  Romov, A. I., 21.4–124
Quasi-geostrophic atmosphere
  Pfeffer, R. L., 21.2–83
Quasi-geostrophic models
  Huss, A. et al., 21.3–431
Quasi-geostrophic perturbations
  Henry, T. J. G., 21.10–238
Quasi-periodic wind variations
  Try, P. D., 21.2–234
Quaternary climates
  Budyko, M. I., 21.10–261
  Grichuk, V. P., 21.7–672
  Mercer, J. H., 21.9–377
  Milankovitch, M., 21.4–
    131
  Sergin, V. Ia. et al., 21.
    524
  Stasiak, J., 21.8–525
  Tanitte, A., 21.5–668
  Vedenskaia, I. E., 21.7–
Quaternary glaciation
  Brochu, M., 21.2–623
  Budyko, M. I., 21.10–26
  International Associati
    for Quaternary R
    search, 8th Congre
    Paris, 1969, 21.1–8
  Sergin, V. Ia. et al., 21
    524
  Tanitte, A., 21.5–668
Quaternary paleohydrology
  Stasiak, J., 21.8–525
Quaternary sea level va
ations
  Holmes, J. W., 21.9–681
Quaternary vegetation
  Stasiak, J., 21.8–525
Quiet days
  Bencze, P., 21.11–504

R

R.R.S. *Discovery* cruises
  Gould, W. J., 21.8–820
Radar altimeter
  Kolker, M. et al., 21.2–22
Radar and laser use in d
tecting CAT
  London, M. P., 21.12–472
Radar angels
  Brylev, C. B. et al., 21.
    108
  Chernikov, A. A. et a
    21.1–109, –110
  Gorelik, A. G. et al., 21.
    112
  Lofgren, G. R. et al., 21.
    60
Radar antennas
  Andrews, G. F., 21.2–419
  Carreri, C. et al., 21.3–2

Pavlov, N. F. et al., 21.1–118, –199
Vaksenburg, S. I. et al., 21.1–202
Radar applications to forecasting
Bel'skaia, N. N., 21.12–153
Radar astronomy research
Erickson, W. C., 21.4–437
Radar atmospheric soundings
Atlas, D., 21.6–39
Hardy, K. R. et al., 21.6–42
Lhermitte, R. M., 21.6–44
Radar attenuation by rain
Boston, R. C., 21.6–40
Marshall, J. S., 21.7–27
Radar backscatter
Ottersten, H., 21.10–31
Radar CAT detection
Glover, K. M. et al., 21.3–594
Lunden, C. D. et al., 21.10–326
Ottersten, H., 21.11–48
Radar calibration
Beriulev, G. P. et al., 21.1–194
Radar characteristics of cloud systems
Brylev, G. B., 21.12–537
Radar clear air returns
Atlas, D., 21.6–39
Hardy, K. R. et al., 21.6–42
Radar clear air turbulence detection
Ottersten, H., 21.10–31
Radar climatology
Landers, H., 21.2–12; 21.6–43
Radar cloud detection
Sauvageot, H., 21.2–13
Radar cloud height measurements
Vaksenburg, S. I. et al., 21.1–202
Radar cloud observation
Sal'man, E. M. et al., 21.3–651
Radar cloud physics studies
Chernikov, A. A., 21.1–583
Sauvageot, H., 21.2–13
Radar comparisons
Merritt, L. P., 21.6–100
Radar data processing
Merritt, L. P., 21.3–89
Petrushevskiĭ, V. A. et al., 21.1–119
Radar data processors
Andrews, G. F., 21.10–29
Shreeve, K. H., 21.6–101
Radar data services
Bigler, S. G., 21.3–91
Radar echo anomalies
Brylev, G. B. et al., 21.1–108
Chernikov, A. A. et al., 21.1–109, –110
Gorelik, A. G. et al., 21.1–112
Radar echo interpretation
Burdakov, F. I., 21.1–195
Dunlap and Assoc., Inc., Santa Monica, Calif., 21.1–196
Reshetov, G. D., 21.10–32
Sal'man, E. M. et al., 21.1–121
Radar echoes
Gashina, S. B. et al., 21.4–116
Hicks, J. J., 21.3–593
Lane, J. A., 21.5–59
Wylie, F. J., 21.1–21
Radar echoes from auroras
Bates, H. F. et al., 21.7–174
Radar echoes from clear atmosphere
Hardy, K. R. et al., 21.1–105
Radar echoes from cloudless sky
Brylev, G. B. et al., 21.1–108
Chernikov, A. A. et al., 21.1–109, –110
Gorelik, A. G. et al., 21.1–112
Radar echoes from clouds
Kalazhokov, Kh. Kh., 21.11–44
Radar echoes from hail
Abshaev, M. T. et al., 21.5–55; 21.11–38
Karmov, M. I., 21.11–45
Krasiuk, N. P., 21.11–46
Rozenberg, V. I., 21.11–50
Radar echoes from hailstorms
Dennis, A. S. et al., 21.6–619
Radar echoes from ionosphere
Bates, H. F. et al., 21.7–174
Radar echoes from meteor trails
Carrara, N. et al., 21.11–600
McIntosh, B. A., 21.5–695
Revah, I., 21.7–507
Simek, M., 21.11–612
Radar echoes from meteors
Glöde, P., 21.9–517
Hajduk, A., 21.9–471
Lindblad, B. A., 21.9–472
McIntosh, B. A., 21.10–638
Millman, P. M., 21.9–473
Rajchl, J., 21.9–522
Stohl, J., 21.11–604
Radar echoes from Moon
Perona, G., 21.10–587
Radar echoes from rain
Dadali, Iu. A., 21.11–40
Radar echoes from sea
Valenzuela, G. R., 21.5–800
Radar echoes from severe storms
Spillane, K. T., 21.12–389
Radar echoes from showers
Shaw, R. W., 21.8–27
Radar echoes from snow
Sekhon, R. S., 21.7–629
Radar echoes from thunderstorms
Berson, F. A., 21.12–395
Burnham, J., 21.7–472
Reshetov, G. D., 21.10–32
Radar echoes from tornadoes
Sadowski, A., 21.8–107
Radar echoes from turbulence
Newburg, E., 21.1–117
Radar echoes polarization
Lofgren, G. R. et al., 21.5–60
Radar equipment
Dunlap and Associates,

Inc., Santa Monica, Calif., 21.1–196
Gal'perin, S. M. et al., 21.1–197
Marshall, J. S., 21.8–72
Shevela, G. F. et al., 21.1–200
Shreeve, K. H., 21.6–101
Strickler, R. C., 21.8–74
Tkhamokov, B. Kh., 21.1–201
Vaksenburg, S. I. et al., 21.1–202
Wylie, F. J., 21.1–21
Zawadzki, I. I., 21.12–106

Radar errors
Kantor, A. J. et al., 21.3–86

Radar forecast aids
Peskov, B. E., 21.7–28
Waldheuser, H. W. et al., 21.1–242

Radar hail detection
Boston, R. C. et al., 21.5–56
Hamilton, R. E., 21.8–26

Radar hail studies
Gaĭvoronskiĭ, I. I. et al., 21.9–334
Sulakvelidze, G. K., 21.1–637
Tkhamokov, B. Kh., 21.1–201
Voronov, G. S. et al., 21.4–302

Radar hurricane studies
Senn, H. V., 21.11–269

Radar ionospheric investigations
Aleksandrova, L. V., 21.12–289
Chesnut, W. G., 21.10–157
Davis, J. R. et al., 21.7–179
Evans, J. V. et al., 21.7–180
Taieb, C., 21.10–195
Wand, R. H., 21.6–244; 21.8–208

Radar measurement of rainfall
Wilson, J. W., 21.11–53

Radar measurement techniques
Pakhomov, S. V., 21.3–72
Sokolowska, K., 21.3–73

Radar mesoscale analysis
Schimsa, G., 21.11–51

Radar meteorological studies
Dutton, J. A., 21.11–42

Radar meteorology
Schimsa, G., 21.11–51

Radar meteorology manuals
U. S. Weather Bureau, 21.6–46

Radar meteorology research
Kostarev, V. V., 21.3–88
U. S. National Aeronautics and Space Administration, 21.10–40

Radar networks
Schimsa, G., 21.11–51

Radar observation of CAT
Browning, K. A., 21.12–471
Ottersten, H., 21.11–47

Radar observation of cloud seeding
Chaterjee, R. N. et al., 21.5–203
Iakovlev, B. R., 21.7–115
Podgurskaia, V. N. et al., 21.1–120
Simpson, J., 21.12–199

Radar observation of clouds
Pavlov, N. F. et al., 21.1–118
Zaboltskaia, T. N. et al., 21.10–378

Radar observation of convection
Gerrish, H. P., 21.5–532

Radar observation of convective cells
Hardy, K. R. et al., 21.1–542
Konrad, T. G., 21.1–543
Yamakawa, H., 21.11–52

Radar observation of cumulonimbus clouds
Abshaev, M. T., 21.1–579

Radar observation of fronts
Peskov, B. E., 21.7–28

Radar observation of hail
Abshaev, M. T., 21.1–579; 21.11–39

Radar observation of hailstorms
Owens, J. J., Jr., 21.1–41
Pell, J., 21.4–301

Radar observation of hydrometeors
Sal'man, E. M. et al., 21.1 121

Radar observation of meteor showers
Elford, W. G., 21.11–614

Radar observation of meteors
Chebotarev, R. P., 21.8 227
Grygar, J. et al., 21.9–5
Lebedinets, V. N., 21.4 490

Radar observation of precipitation
Pavlov, N. F. et al., 21.1 118
Reshetov, G. D., 21.7–626
Stepanenko, V. D., 21.9 86R

Radar observation of rain
Abshaev, M. T., 21.11–39
Marshall, J. S., 21.7–27

Radar observation of refractive index
Richter, J. H., 21.10–85

Radar observation of sea ice
Guinard, N. W., 21.12–4

Radar observation of sea states
Guinard, N. W., 21.12–45

Radar observation of sea waves
Shifrin, K. S., 21.9–78R
Valenzuela, G. R. et al. 21.5–800

Radar observation of showers
Gel'mgol'ts, N. F., 21.12 538
Palagniuk, E. G., 21.12–4
Kawecki, A. et al., 21.9 318
Sal'man, E. M. et al., 21.1– 122

Radar observation of snowfall
Marshall, J. S., 21.7–27

Radar observation of storms
Armstrong, G. M., 21.3– 210

Radar observation of thunderstorms
- Donnadieu, G. et al., 21.2–11
- Merritt, L. P., 21.6–100
- Owens, J. J., Jr., 21.1–412
- Sal'man, E. M. et al., 21.1–121, –122
- Segman, R., 21.8–73

Radar observation of tornadoes
- Waldheuser, H. W. et al., 21.1–242

Radar observation of tropical cyclones
- McCaslin, R. J., 21.1–405

Radar observation of wind
- Rybakov, E. T., 21.12–41

Radar observation techniques
- Schaffert, U., 21.1–335

Radar observations
- Chisholm, A. J., 21.3–83
- Granitzny, P., 21.3–85
- Howell, W. E., 21.3–309
- Kapovits, A., 21.3–87
- Sal'man, E. M. et al., 21.3–93

Radar observations of cyclonic storms
- Wilson, D. A. et al., 21.7–284

Radar observations of premonsoon thunderstorms
- Kundu, M. M. et al., 21.5–58

Radar ocean wave measurements
- Dremliug, V. V., 21.6–837

Radar performance
- Tary, J. J. et al., 21.10–577

Radar precipitation data
- Antonov, V. S. et al., 21.4–279

Radar precipitation echoes
- Kantor, A. J. et al., 21.3–86
- Pavlov, N. F., 21.1–199

Radar precipitation intensity
- Sulakvelidze, G. K. et al., 21.1–610

Radar precipitation measurement techniques
- Beznis, L. I. et al., 21.1–107

Radar precipitation measurements
- Beriulev, G. P. et al., 21.1–194
- Korotaev, G. A., 21.12–46
- Kostarev, V. V. et al., 21.3–658
- Markovich, M. L. et al., 21.4–281

Radar precipitation studies
- Flanders, A. F., 21.4–303
- Gorelik, A. G. et al., 21.1–606

Radar rainbands
- Hamuro, M. et al., 21.6–337

Radar raindrop size observation
- Dadali, Iu. A., 21.11–41

Radar rainfall intensity measurements
- Creteanu, V., 21.4–280
- Gel'mgol'ts, N. F., 21.12–538

Radar rainfall measurements
- Borovikov, A. M. et al., 21.6–593
- Gorelik, A. G. et al., 21.3–84
- Joss, J., 21.11–43
- Ross, M., 21.3–90
- Treussart, H., 21.7–29
- Woodley, W. et al., 21.7–30

Radar receivers
- Burdakov, F. I., 21.1–195
- Gornostaev, N. V. et al., 21.1–198

Radar reflectivity of raindrops
- Boston, R. C., 21.6–40

Radar shower observations
- Gal'perin, S. M. et al., 21.1–197

Radar squall observations
- Agarwal, O. P. et al., 21.4–113

Radar storm detection
- Dunlap and Assoc., Inc., Santa Monica, Calif., 21.1–196

Radar storm observation
- Haglund, G. T., 21.3–444

Radar studies of planets
- Trizna, D. B. et al., 21.5–693

Radar synoptic analysis
- Divinskaia B., 21.1–111

Radar thunderstorm detection
- Gal'perin, S. M. et al., 21.1–197
- Wilk, K. E. et al., 21.2–102

Radar tornado detection
- Hamilton, R. E., 21.8–26

Radar tracking
- EG & G, Inc., Boulder, Colo., 21.12–8
- Stengel, R. F., 21.3–191

Radar turbulence measurement techniques
- Gorelik, A. G. et al., 21.1–113

Radar turbulence measurement techniques in clouds
- Gorelik, A. G. et al., 21.1–114

Radar turbulence measurements
- Chernikov, A. A. et al., 21.10–323
- Lhermitte, R. W., 21.10–321
- U. S. Air Force, Cambridge Research Labs., 21.7–477

Radar upper air soundings
- Carreri, C. et al., 21.3–211

Radar upper air wind measurement techniques
- Hyson, P., 21.1–182

Radar weather studies
- Divinskaia, B., 21.1–111

Radar wind measurement techniques
- Dunlap and Assoc., Inc., Santa Monica, Calif., 21.1–196

Radar wind measurements
- Pakhomov, S. V., 21.11–93
- Peace, R. L., Jr. et al., 21.3–629

Radial diffusion
- Farley, T. A., 21.3–528

Radiant energy transfer
- Strelkov, G. M. et al., 21.2–442

Wood, A. D. et al., 21.4–150
Radiant flux measurement techniques
  Brounshteĭn, A. M. et al., 21.1–167
Radiation
  Barabashov, B. G., 21.10–7R
  Iugenson, A. P., 21.10–18R
Radiation absorption
  Abashina, E. V., 21.3–513
Radiation analysis
  Idso, S. B., 21.1–438
Radiation balance
  Andriţoiu, N. et al., 21.3–491
  Bridgman, H. A., Jr., 21.7–318
  Dobryshman, E. M. et al., 21.4–126
  Kondrat'ev, K. Ia., 21.10–27R
  Potapova, L. S., 21.9–209
  Raschke, E. et al., 21.10–265
  Vinnikov, K. Ia., 21.12–407
  Zhukov, V. M., 21.9–212
Radiation balance calculations
  D'iachenko, L. N., 21.1–424
  Gerstmann, W., 21.10–262
  Lingova, St., 21.2–111
  Major, G. et al., 21.3–500
  Villa Nova, N. A., 21.12–404
Radiation balance distribution
  Major, G. et al., 21.3–500
Radiation balance meters
  Kostianoĭ, G. N., 21.5–107
Radiation balance of clouds
  Goĭsa, N. I., 21.11–281
Radiation balance of cotton fields
  Muminov, F. A., 21.1–417
Radiation balance of crops
  Impens, I. et al., 21.4–129
Radiation balance of forests
  Rauner, Iu. L., 21.1–428
Radiation balance of freezing reservoir
  Malevskiĭ-Malevich, S. P., 21.6–58
Radiation balance of lakes
  Mahringer, W., 21.4–130
Radiation balance of troposphere
  Bernhardt, K., 21.12–405
Radiation balance of upper atmosphere
  London, J., 21.8–154
Radiation balance over plant cover
  Budagovskiĭ, A. I., 21.1–420
Radiation balance variations
  Samukashvili, R. D., 21.9–214, –215
Radiation belt dynamics
  Gurevich, A. V. et al., 21.8–272
Radiation belt electron diffusion
  Roberts, C. S., 21.7–382
  Roederer, J. G. et al., 21.8–293
Radiation belt electron flux
  Arnoldy, R. L. et al., 21.6–396
  Imhof, W. L. et al., 21.8–275
  Khorosheva, O. V. et al., 21.7–373
  Pfitzer, K. A. et al., 21.10–287
  Vesecky, J. F., 21.2–388
  Yeager, D. M. et al., 21.4–155
Radiation belt electron intensities
  McDiarmid, I. B. et al., 21.7–376
Radiation belt–geomagnetic relationships
  Arnoldy, R. L. et al., 21.6–396
  Freeman, J. W., Jr. et al., 21.7–367
  Khorosheva, O. V. et al., 21.7–373
Radiation belt instability
  Liu, C. S., 21.12–316
  Nocentini, A., 21.2–150
Radiation belt–ionosphere effects
  Velinov, P., 21.8–207
Radiation belt–ionospheric relationships
  Afonina, R. G. et al., 21.2–130
Radiation belt models
  Lavine, J. P. et al., 21.8–284
Radiation belt particle motion
  Birmingham, T. J. et al. 21.7–364
Radiation belt proton energy spectra
  Savenko, I. A. et al., 21.8–294
Radiation belt proton flux
  Heckman, H. H., 21.11–293
Radiation belt proton intensities
  Farley, T. A. et al., 21.8–268
  Imhof, W. L., 21.11–294
Radiation belt theories
  McIlwain, C. E., 21.10–284
  Theodoridis, G. C. et al., 21.8–299
Radiation belts
  Schardt, A. W. et al., 21.6–414
  Stassinopoulos, E. G., 21.11–300
  Van Allen, J. A., 21.3–532
  Vernov, S. N., 21.9–229
Radiation belts emissions
  Vesecky, J. F., 21.2–388
Radiation belts–geomagnetic relationships
  Sozou, C. et al., 21.8–297
Radiation budget
  Vonder Haar, T. H., 21.8–236
Radiation calculations
  Heyne, H., 21.11–282
Radiation charts
  Barth, R. E., 21.3–492
Radiation climate
  Rees, A. R., 21.1–440
Radiation climate of orchards
  Kalma, J. D. et al., 21.6–350
Radiation climatology
  Dogniaux, R., 21.12–408

Radiation–clouds effects
Goïsa, N. I., 21.11–281
Radiation data
Belgium. Institut Royal Météorologique, Brussels, 21.1–435, –436
Finland, 21.4–429
Radiation data analysis
Panin, B. D., 21.11–17R
Radiation diffusion
Armstrong, B. H., 21.1–449
Sobolev, V. V., 21.4–148
Radiation distribution
Tsel'niker, Iu. L., 21.1–433
Radiation–dynamic meteorology relationships
Cox, S. K., 21.3–494
Radiation effects
Eichmeier, J., 21.11–280
Radiation effects on buildings
Pivovarova, Z. I., 21.5–430
Selivanov, N. P. et al., 21.5–431
Tokareva, E. F., 21.5–432
Tsitsenko, G. V., 21.5–434
Radiation effects on general circulation
Kondrat'ev, K. Ia. et al., 21.6–307; 21.11–255
Radiation effects on plants
Anderson, M. C. et al., 21.7–317
Aston, A. R. et al., 21.5–428
Bedenko, V. P., 21.1–418
Iakshina, A. M., 21.1–426
Jenik, J. et al., 21.7–321
Nikitinskaia, N. I., 21.1–445
Radiation error of radiosondes
Fridzon, M. B., 21.5–111
Radiation flux
Faraponova, G. P., 21.3–178
Gebhart, R., 21.5–448
Idso, S. B., 21.1–438
Lucke, O. et al., 21.10–263
Terjung, W. H. et al., 21.2–117
Radiation flux calculations
Wörner, H., 21.10–267
Radiation flux in crops
Anderson, M. C., 21.6–378
Brown, P. S., Jr. et al., 21.6–379
Impens, I. et al., 21.7–335
Ross, Iu. K. et al., 21.1–460
Radiation flux in upper air
Ashcheulov, S. V. et al., 21.2–127
Kondrat'ev, K. et al., 21.2–116
Radiation fog
Bollay, E., Associates, Inc., Santa Barbara, Calif., 21.11–375
Radiation–fog effects
Koshalenko, I. V., 21.3–497
Radiation fog forecasting
Zdunkowski, W. G. et al., 21.8–106
Radiation fog formation
Zdunkowski, W. G. et al., 21.8–106
Radiation forecasting
Dobryshman, E. M. et al., 21.4–126
Radiation from clouds
Zdunkowski, W. G. et al., 21.6–385
Radiation from Earth
Kondrat'ev, K. Ia., 21.9–47R
Radiation from vegetation
Bergen, J. D., 21.10–271
Idso, S. B. et al., 21.8–240
Radiation hazards
Curtis, S. B. et al., 21.8–265
Radiation hazards on the Moon
Segman, R., 21.2–490
Radiation heat exchange
Howell, J. R. et al., 21.1–7
Radiation ice effects
Kuznetsov, M. A., 21.3–498
Radiation instrument mountings
Sumner, C. J. et al., 21.9–53
Radiation instrument satellite
Krasil'shchikov, L. B., 21.11–16R
Radiation instrument shields
Horowitz, J. L., 21.9–55
Radiation instruments
Barros Ferraz, E. S., 21.11–84
Collins, B. G. et al., 21.3–177
Dogniaux, R., 21.1–166
Faraponova, G. P. et al., 21.1–176
Kmito, A. A., 21.11–14R
Radiation measurement during eclipse
Karapiperis, L. N., 21.9–413
Sakhanov, V. V., 21.5–441
Radiation measurement from satellite
Kmito, A. A., 21.11–14R
Shifrin, K. S., 21.11–22R, –23R
Radiation measurement techniques
Barashkova, E. P., 21.11–4R
Radiation measurements
Bidasio, D., 21.2–114
Chapurskiĭ, L. I., 21.11–9R
Kvraishi, M. M., 21.5–439
Nikol'skiĭ, G. A., 21.10–34R
Wörner, H., 21.10–267
Radiation measurements at sea
Girdiuk, G. V., 21.6–25
Radiation meters
Strong, J., 21.11–85
Radiation models
Cox, S. K., 21.3–494
Radiation nomograms
Lebedev, A. N., 21.6–356
Radiation on mountain slopes
Lafleur, D., 21.11–284
Samukashvili, R. D., 21.9–215, –216
Radiation on slopes
Anderson, M. C. et al., 21.7–317
Heyne, H., 21.11–282
Radiation penetration in aquatic plants
Sid'ko, F. Ia., 21.1–461

Radiation penetration in forests
  Iakshina, A. M., 21.1–425
  Khazanov, V. S. et al., 21.1–458
  Rauner, Iu. L., 21.1–428
  Vygodskaia, N. N., 21.1–434
Radiation penetration in ice
  Shishokin, S. A., 21.4–146, –147; 21.10–45R
Radiation penetration into lakes
  Are, F. E. et al., 21.6–373
  Mokievskiĭ, K. A., 21.1–459
  Schellenberger, G., 21.6–381
Radiation penetration into sea
  Jitts, H. R., 21.6–830
  Matsuike, K., 21.8–830
Radiation regime
  Suziumova, G. N., 21.5–433
Radiation regime of plant canopies
  Budagovskiĭ, A. I., 21.1–420
Radiation regime of plant cover
  Burikov, E. A., 21.1–422
  Ross, Iu. K. et al., 21.1–429, –430
Radiation research
  Barashkova, E. P., 21.9–4R
  Möller, F., 21.10–264
  Wörner, H., 21.7–320
Radiation–river temperature effects
  Brown, G. W., 21.10–754
Radiation–snowmelt effects
  Kuznetsov, M. A., 21.3–498
Radiation tables
  Johnson, F. G., 21.7–336
Radiation temperature patterns
  Noble, V. E. et al., 21.3–575
Radiation thermoelements
  Faraponova, G. P., 21.3–178
Radiation thermometers
  Colacino, M., 21.8–54
  Wyrtki, K., 21.12–773
Radiation transmission
  Danielson, R. E. 21.3–504
  Rodgers, C. D., 21.1–451
Radiation transmission computations
  Collins, D. G. et al., 21.7–326
  Idso, S. B., 21.10–275
  Potter, J. F., 21.12–425
  Smith, W. L., 21.2–124
Radiation transmission in corn crop
  Burikov, E. A., 21.1–422
  Brown, P. S., Jr. et al., 21.6–379
Radiation transmission through clouds
  Klimovich, V. M., 21.12–424
  Strand, R. F., 21.6–377
Radiation transmission through fog
  Strand, R. F., 21.6–377
Radiation under trees
  Anderson, M. C., 21.12–420
  Miller, P. C., 21.7–343
Radiation within plant canopies
  Anderson, M. C., 21.6–378
  Impens, I. et al., 21.7–335
Radiational cooling
  Horney, G., 21.3–619
  Johnson, F. G., 21.7–336
Radiational cooling effects
  Staley, D. O. et al., 21.2–198
Radiational cooling–temperature inversion relationships
  Pagliari, M., 21.7–448
Radiational heating
  Godbole, R. V. et al., 21.4–128
  Walshaw, C. D., 21.10–220
Radiational heating and cooling
  Godbole, R. V. et al., 21.4–127
Radiational temperature change
  Grasnick, K. H., 21.12–403
  McClatchey, R. A., 21.4–176
  Winter, V. et al., 21.8–23
Radiational temperature change calculations
  Johnson, F. G., 21.7–336
Radiative cooling
  Petrova, L. V. et al., 21.3–512
Radiative equilibrium temperature
  Godbole, R. V. et al., 21.4–128
Radiative fluxes
  Ginzburg, A. S., 21.12–41
Radiative heat flux
  Wu, S. T., 21.7–247
Radiative heating
  Drayson, S. R. et al., 21.6–346
  Skuratova, I. S., 21.6–522
Radiative heating of upper atmosphere
  Steblova, R. S., 21.11–319
Radiative transfer
  Danzer, K. H. et al., 21.4–136
  Drobyshevich, V. I., 21.1–464
  Ianovitskiĭ, E. G., 21.9–46
  Pomraning, G. C., 21.6–69
  Shved, G. M. et al., 21.1–452
  Siewert, C. E., 21.7–340
  Witte, H. J., 21.1–453
  Yamamoto, G., 21.7–572
Radiative transfer in planetary atmospheres
  Gierasch, P. J. et al., 21.6–706
  Hunt, G. E. et al., 21.4–426
  Uesugi, A. et al., 21.4–48
Radiative transfer studies
  Gutshabash, S. D., 21.6–376
  Keevallik, S. Kh. et al., 21.7–337
  Varma, R. K., 21.11–354
Radiative transfer through clouds
  Hunt, G. E. et al., 21.4–42
  Zdunkowski, W. G. et al., 21.5–453; 21.7–341

Radio applications
Hogg, D. C. et al., 21.8–700
Radio astronomy
Gaitskell, J. N. et al., 21.8–722
Petrosiants, M. A. et al., 21.4–240
Strong, J. P., III, 21.3–717
Radio Astronomy Explorer (RAE)
Stone, R. G., 21.10–580
Radio astronomy instruments
Gebbie, H. A. et al., 21.7–747
Radio astronomy observations
Foster, P. R., 21.7–746
Radio astronomy observatories
Urbarz, H., 21.3–721
Van Allen, J. A. et al., 21.3–716
Radio astronomy research
Erickson, W. C., 21.4–437
Nature [London], 21.4–439
Van Allen, J. A. et al., 21.3–716
Radio astronomy research equipment
Locke, J. L., 21.4–438
Swenson, G. W., Jr. et al., 21.8–718
Radio astronomy studies
Alekseev, I. A. et al., 21.6–395
Radio auroral measurements
Lange Hesse, G., 21.10–513
Ose, M. et al., 21.2–371
Radio blackouts
U. S. Air Force. Cambridge Res. Labs., Bedford, Mass., 21.2–80
Radio brightness temperatures
Stepanenko, V. D., 21.9–85R
Radio bursts, type II and III
Krivsky, L., 21.11–637
Radio cesium–flooded rice effects
Myttenaere, C. et al., 21.3–706
Radio climatology
Strauch, E., 21.7–217
Radio communications
Segman, R., 21.4–419
Symposium on Space and Radiocommunication, Paris, June 2, 1969, 21.9–465
Radio distance measurements
Wood, L. E., 21.6–686
Radio echoes from ionosphere
Dearden, E. W., 21.11–181
Radio echoes from meteor trails
Lebedinets, V. N., 21.12–615
Radio emission from air showers
Bray, A. D., 21.10–531
Fegan, D. J. et al., 21.10–534
Radio emission from clouds
Basharinov, A. E., 21.9–7R
Keeney, J., 21.7–722
Rabinovich, Iu. I., 21.9–66R
Radio emission from galaxies
Razin, V. A. et al., 21.11–558
Radio emission from ice cover
Kurskaia, A. A., 21.9–48R
Radio emission from Jupiter
Clegg, P. E. et al., 21.8–727
Goldreich, P., 21.2–430
Haffner, J. W., 21.11–585
Olsson, C. N. et al., 21.8–729
Piddington, J. H., 21.2–431
Soboleva, N. S. et al., 21.10–586
Radio emission from lightning
Oetel, G. N. et al., 21.7–724
Radio emission from Mars
Viktorova, A. A. et al., 21.2–443
Radio emission from Moon
Clegg, P. E. et al., 21.8–727
Fedoseev, L. I. et al., 21.4–458
Starodubtsev, A. M., 21.8–728
Radio emission from precipitation
Rabinovich, Iu. I., 21.9–66R
Radio emission from sea surface
Droppleman, J. D., 21.10–533
Nordberg, W. et al., 21.2–385
Paris, J. F., 21.7–25
Shifrin, K. S., 21.9–78R
Shutko, A. M., 21.9–81R
Radio emission from snow and ice covers
Tuchkov, L. T., 21.9–89R
Radio emission from the atmosphere
Basharinov, A. E., 21.9–6R
Stepanenko, V. D., 21.9–85R
Radio emission from Venus
Gale, W. et al., 21.9–500
Gol’nev, V. Ia. et al., 21.10–584
Viktorova, A. A. et al., 21.2–443
Radio fading
Burrows, W. G., 21.9–134
McQuate, P. L. et al., 21.5–307
Neisser, J., 21.1–334
Rider, G. C., 21.9–143
Skerjanec, R. E. et al., 21.3–27
Sofko, G. J., 21.11–524
Radio field
Hall, M. P. M., 21.9–139
Radio field strength calculation
Kashprovskiĭ, V. E. et al., 21.7–737
Rider, G. C., 21.9–143

Radio field strength fluctuations
  Dagkesamanskaia, I. M. et al., 21.10–569
Radio interference
  Disney, R. T., 21.2–409
  Tary, J. J. et al., 21.10–577
Radio interferometer techniques
  Swenson, G. W., Jr. et al., 21.8–718
Radio interferometers
  Locke, J. L., 21.4–438
Radio investigation of ionosphere
  Armstrong, R. J. et al., 21.6–217
  Bain, W. C., 21.2–64
  Beer, T. I., 21.8–161
  Boyd, G. M., 21.11–171
  Briggs, B. H., 21.11–173
  Butcher, E. C., 21.6–223
  Checha, V. A., 21.11–178
  Erukhimov, L. M., 21.12–296
  Galkin, A. I. et al., 21.5–346
  Gregory, J. B. et al., 21.2–70
  Holt, O., 21.9–169
  Jean, A. G. et al., 21.2–74
  Kift, F. et al., 21.8–185
  Kol'tsov, V. V., 21.12–303
  Nestorov, G., 21.2–76
  Ovezgel'dyev, O., 21.12–308
  Thomas, L. et al., 21.6–241
  Vasseur, G. et al., 21.9–186
Radio ionosphere investigation
  Misiura, V. A., 21.9–175
Radio ionospheric investigation
  Waldteufel, P., 21.6–243
Radio meteor trails
  Zimmerman, S. P., 21.1–488
Radio meteorological data
  Radu, St. et al., 21.3–101
Radio meteorology investigations
  Schaffert, U., 21.1–335
Radio noise bursts
  Efanov, V. et al., 21.4–444
Radio noise data
  Lauter, E. A. et al., 21.5–35
Radio noise from auroras
  Ellyett, C. D., 21.2–380
  Harang, L., 21.10–537
Radio noise from ionosphere
  Harang, L., 21.10–537
Radio noise measurements
  Chindahporn, R. et al., 21.10–532
  Hagn, G. H. et al., 21.9–454
Radio noise variations
  Chindahporn, R. et al. 21.10–532
  Hagn, G. H. et al., 21.9–454
Radio observation of auroras
  Lange Hesse, G., 21.10–513
Radio observation of planets
  Reiff, G. A., 21.11–559
Radio observation of Venus
  Kazantsev, A. N., 21.12–602
  Lukin, D. S., 21.12–603
Radio observations of meteors
  Andrianov, N. S. et al., 21.11–560
Radio reception
  Barrow, B. B., 21.9–131
Radio reflections from meteor trails
  Lebedinets, V. N. et al., 21.11–561
Radio refractive index
  Bean, B. R., 21.9–190; 21.12–319
  Strauch, E., 21.7–217
  Tyagi, T. R., 21.3–165
Radio refractive index models
  Srivastava, H. M. et al., 21.7–216
Radio refractive index spectra
  Birkemeier, W. P., 21.11–214
  Gjessing, D. T., 21.12–320
Radio refractivity
  Hebert, J. O., Jr. et a
  21.4–77
  Rowlandson, L. G., 21.4
  78
Radio research
  Hogg, D. C. et al., 21.8
  700
Radio satellite scintillatio
  Preddey, G. F., 21.3–159
Radio sounding of ice
  Fedorov, B. A., 21.8–800
  Finkel'shtein, M. I., 21.12–730
Radio sounding systems
  Cox, D. C., 21.6–35
  Fischbach, F. F. et al
  21.6–21
  Kliore, A., 21.6–22
Radio soundings
  Gjessing, D. T., 21.12–32
  Ivanov, V. Kh., 21.6–56
  Kieburtz, R. B., 21.9–26
  Lee, R. W., 21.10–30
Radio star scintillation
  Getmantsev, G. G. et a
  21.6–66
Radio Sun emissions
  Durasova, M. S. et al
  21.4–443
Radio telescopes
  Bakhrakh, L. D. et al
  21.9–469; 21.12–593
  Burunsuzian, E. S., 21.4
  436
  Nature [London], 21.4–43
  Swenson, G. W., Jr., 21.4
  22
Radio transmitters
  Litva, J., 21.6–685
Radio wave absorption
  Lane, J. A., 21.11–216
Radio wave absorption b clouds
  Basharinov, A. E. et al
  21.1–581
Radio wave absorption b oxygen
  Reber, E. E. et al., 21.9
  119; 21.12–321
Radio wave absorption b water vapor
  Breeden, K. H. et al
  21.10–207
  Burroughs, W. J. et al
  21.2–237

Liebe, H. et al., 21.9–272
Viktorova, A. A. et al., 21.2–443

Radio wave atmospheric attenuation
Thompson, W. I. et al., 21.1–336

Radio wave attenuation
Boithias, L., 21.9–191
Reber, E. E. et al., 21.9–119; 21.12–321
Ruthroff, C. L., 21.6–598
Strickland, J. I. et al., 21.9–300
Thompson, W. I. et al., 21.1–336

Radio wave attenuation in rain
Altschuler, E. E., 21.12–68

Radio wave fading
Gherzi, E., 21.7–426

Radio wave frequency deviations
Basu, S., 21.3–718

Radio wave phase variations
Sharygin, G. S. et al., 21.4–417

Radio wave propagation
Bunkin, F. V. et al., 21.3–584
Chauzy, S. et al., 21.3–389
Cox, D. C., 21.4–46; 21.6–35
Gossard, E. E., 21.7–734
Kompfner, R., 21.2–406
Kuperov, L. P., 21.4–418
Neisser, J., 21.1–334
Rowlandson, L. G., 21.4–78
Shishov, V. I., 21.3–395
Skerjanek, R. E. et al., 21.3–27

Radio wave propagation anomalies
Serafimov, K. et al., 21.4–420

Radio wave propagation beyond the horizon
Anastassiades, M. et al., 21.6–253
Kieburtz, R. B., 21.9–26

Radio wave propagation computations
Dougherty, H. T., 21.6–192

Radio wave propagation conferences
Conference on Tropospheric Wave Propagation, London, 1938, 21.9–135
North Atlantic Treaty Organization Advisory Group for Aerospace Research and Development, 21.1–31

Radio wave propagation experiments
Gerson, N. C. et al., 21.7–733

Radio wave propagation forecasting
Hickin, E. M., 21.11–215
Larsen, R., 21.9–140

Radio wave propagation models
Post, R. E. et al., 21.9–142

Radio wave propagation over long distances
Kashprovskiĭ, V. E. et al., 21.7–737

Radio wave propagation research
Segman, R., 21.4–419

Radio wave propagation–terrain effects
Sharygin, G. S. et al., 21.4–417

Radio wave propagation theories
Bennet, J. A., 21.8–699

Radio wave reflections
Tkhamokov, B. et al., 21.1–103

Radio wave resonance–plasma relationships
Gurevich, A. V. et al., 21.8–706

Radio wave scattering
Farley, D. T., 21.4–76
Gusev, V. D. et al., 21.10–572
Liebe, H. et al., 21.9–272
North Atlantic Treaty Organization Advisory Group for Aerospace Research and Development, 21.1–31
Ott, R. H. et al., 21.5–42
Vinogradova, M. B., 21.3–396

Radio wave scattering by meteor trails
Kostylev, K. V., 21.9–521

Radio wave scattering by water waves
Gulin, E. P., 21.12–44

Radio wave scintillation
Barletti, R., 21.1–333
Lane, J. A., 21.11–216

Radio wave transmission loss
Gierhart, G. D. et al., 21.5–95

Radio wave transmission through rain
Shifrin, K. S., 21.9–76R
Volchok, B. A., 21.9–93R

Radio weather aid
U. S. Naval Oceanographic Office, 21.6–129

Radioactive aerosols
Boisdron, Y., 21.12–231
Brock, J. R., 21.12–236
Megar, W. J. et al., 21.8–214
Nakatani, S., 21.9–286
Noshkin, V. E., 21.4–82
Porstendorfer, J., 21.12–329
Schreiber, H. et al., 21.5–282
Zier, M., 21.12–338

Radioactive atmospheric aerosols
Reiter, R., 21.3–400

Radioactive clouds
Danali, S. D., 21.6–256

Radioactive contamination
Woodwell, G. M., 21.5–305

Radioactive contamination of ocean
Okubo, A. et al., 21.8–842

Radioactive contamination of plants
Chadwick, R. C., 21.12–340
Chamberlain, A. C., 21.12–341

Radioactive contamination of river water
Carrigan, P. H., Jr., 21.2–597

Radioactive data, Finland
Finland. Ilmatieteen Laitos, 21.11–68R

Radioactive diffusion
  Chamberlain, A. C., 21.1–490
  Cooper, R. E. et al., 21.10–212
  Fontan, J. et al., 21.7–219
  Israël, H., 21.12–324
  Rivera-Cordero, A., 21.12–337
  Sachdev, R. N. et al., 21.4–207, –209
  Simpson, C. L., 21.12–363
  Van der Hoven, I., 21.4–209
Radioactive dosage
  Bryant, P. M., 21.3–399
  Gibson, J. A. B. et al., 21.4–79
  Nickola, P. W., 21.12–362
  Shearer, S. D., Jr., 21.3–401
  Shleien, B. et al., 21.4–84
Radioactive dose calculations
  Cooper, R. E. et al., 21.10–212
  Swisher, S. D., 21.7–223
Radioactive dose rate meters
  Mishev, I. et al., 21.10–94
Radioactive emanations
  Cupka, S. et al., 21.1–347
Radioactive fallout
  Cupka, S. et al., 21.3–403
  Shleien, B. et al., 21.4–84
  Sladkovic, R., 21.3–406
  Trefry, G. et al., 21.3–408
  Van der Westhuizen, M., 21.3–409
  Wollenberg, H. A., 21.3–397
  Woodwell, G. M., 21.5–305
Radioactive fallout analysis
  Diaconescu, G. I. et al., 21.4–81
  Zindler, H., 21.1–346
Radioactive fallout composition
  Noshkin, V. E., 21.4–82
Radioactive fallout computation
  Kownacka, L., 21.7–225
Radioactive fallout dispersal
  Disconescu, G. I. et al., 21.1–348
  Fox, J. M., 21.12–342
Radioactive fallout distribution
  Shafer, Iu. G. et al., 21.4–83
Radioactive fallout effects
  Huzita, A. et al., 21.7–224
Radioactive fallout forecasting
  Peterson, K. R., 21.12–347
Radioactive fallout global distribution
  Peterson, K. R., 21.12–347
Radioactive fallout measurements
  Aarkrog, A., 21.12–339
  Cupka, S. et al., 21.1–347
  Fischer, H. F., 21.6–259
  Hla, P., 21.12–344
  Zykova, A. S. et al., 21.9–192
Radioactive fallout over oceans
  Assaf, G., 21.11–218
Radioactive fallout predictions
  Heffter, J. L., 21.3–267
Radioactive fallout transport
  Machta, L., 21.12–345
  Palmer, B. D., 21.5–363
  Rangarajan, C., 21.12–349
  Reiter, R., 21.12–350
  Sladkovic, R., 21.3–406
  Sotobayashi, T. et al., 21.6–261
Radioactive fallout variations
  Mahlman, J. D., 21.6–250
  Novakova, E. et al., 21.1–342
Radioactive hydrologic tracers
  Mosetti, F., 21.10–681
Radioactive ion mobility
  Fontan, J. et al., 21.7–219
Radioactive ions
  Kawano, M., 21.12–326
Radioactive measuring devices
  Lukasiewicz, F., 21.1–208
  Tin, A. N., 21.11–107
Radioactive mineral water
  Rymaszewska, M., 21.3–405; 21.4–556
Radioactive pollution studies
  Rivera-Cordero, A., 21.12–337
Radioactive precipitation
  Matousck, J. et al., 21.1–341
  Meyer, G. L., 21.7–623
  Novakova, E. et al., 21.1–342
  Simon, A., 21.1–344
Radioactive rain
  Avramenko, A. S. et al 21.8–426
Radioactive rainwater
  Sotobayashi, T. et al., 21.6–261
Radioactive rainwater measurements
  Aarkrog, A., 21.12–339
Radioactive river water
  Mallory, E. C., Jr. et al. 21.7–805
Radioactive rocks
  Takagi, J., 21.7–423
Radioactive seawater
  Bhat, S. G., 21.3–790
  Ku, T. L. et al., 21.4–677
Radioactive seawater measurement techniques
  Shirassawa, T. H., 21.1–731
Radioactive seawater measurements
  Noshkin, V., 21.1–732
Radioactive snow cover
  Ambach, W. et al., 21.8–423
Radioactive soil
  Katsurayama, K., 21.6–257
  Wollenberg, H. A. et al., 21.3–397
Radioactive stratospheric storage
  Fox, J. M., 21.12–342
Radioactive tracer diffusion experiments
  Assaf, G., 21.12–322
Radioactive tracers
  Gershon, N. D. et al., 21.4–570
  List, R. J. et al., 21.3–432

Neunylov, B. A. et al., 21.10–552

Radioactive tracers in hydraulic engineering
Krishnamurthy, K. et al., 21.10–561

Radioactive tracers in hydrology
Davis, G. H. et al., 21.9–645
Dincer, T. et al., 21.8–782
Kaufman, M. I. et al., 21.10–728
Meyer, G. L., 21.7–623
Yen, B. C., 21.12–701

Radioactive tracers in hydrometeorology
Brown, R. M. et al., 21.8–341

Radioactive tracers in meteorology
Loosli, H. H. et al., 21.8–213

Radioactive tracers in oceanography
Kuo, H.-H., 21.12–755

Radioactive turbulent diffusion
Luma, R. E., 21.1–493

Radioactive washout
Marquardt, W., 21.6–258
Reiter, R. et al., 21.8–429
Zier, M., 21.1–345

Radioactive waste dispersion
Carrigan, P. H., Jr., 21.2–597

Radioactive waste disposal
Van der Hoven, I., 21.4–209

Radioactive waste in rivers
Carrigan, P. H., Jr., 21.2–597

Radioactivity–humidity relationships
Zier, M., 21.1–345

Radioactivity in atmosphere
Senin, E. V., 21.11–217

Radioactivity in precipitation
Ireland. Meteorological Service, 21.11–70R

Radioactivity in seawater
Okubo, A., 21.9–697
Sastry, J. S. et al., 21.9–698

Radioactivity in the atmosphere distribution
Danielsen, E., 21.12–285

Radioactivity measurement instruments
Barabanov, I. R. et al., 21.10–92
Suschny, O., 21.6–119

Radioactive measurement techniques
Barabanov, I. R. et al., 21.10–92
Matousck, J. et al., 21.1–341

Radioactivity measurements
Expédition Antarctique Belgo-Néerlandaise, 1964–1965, 21.1–337
Washington (State). Dept. of Health, 21.11–45R

Radioactivity meteorology
International Atomic Energy Agency, Vienna, 21.1–40

Radioactivity of firn layers
Ambach, W. et al., 21.8–423

Radioactivity–weather relationships
Kopcewicz, T., 21.7–222
Rocznik, K., 21.6–254
Van Cauwenberghe, A. R. et al., 21.7–220

Radiocarbon in seawater
Craig, H., 21.9–695
Fairhall, A. W. et al., 21.4–676
Nydal, R., 21.12–336
Williams, P. M. et al., 21.4–672

Radiocarbon variations
Grey, D. C., 21.10–211

Radioheliograph observations
Krivsky, L., 21.11–637

Radioiodine fallout
Van Middlesworth, L., 21.3–402

Radiological instrumentation
Battelle Memorial Inst., Pacific Northwest Lab., Richland, Wash., 21.10–210

Radiometeorological parameters
Boithias, L., 21.9–191

Radiometers
Gorodetskiĭ, A. K. et al., 21.1–168
Kapustin, P. A. et al., 21.3–185
Lebedeva, K. D. et al., 21.3–182
Misme, P., 21.11–33
Roulet, R. R., 21.12–410
Tag, P. M., 21.10–308

Radiometric emissions from sea surface
Huebner, G. L., 21.2–762

Radiometric measurement of surface temperatures
Colacino, M., 21.8–850
Lorenz, D., 21.7–456

Radiometric measurements
Lorenz, D., 21.5–496

Radiometric scales
Blevin, W. R. et al., 21.10–74

Radiometric techniques
Gurvich, A. S., 21.6–161

Radiometric temperature measurements
Chahine, M. T., 21.6–26
Kondrat'ev, K. Ia., 21.3–566

Radiometry
Orlov, V. N., 21.2–335

Radionuclide concentration
Kleinman, M. T. et al., 21.3–108

Radionuclides in the atmosphere
Young, J. A., 21.12–334

Radioprobe thermistor
Zaĭchikov, P. F., 21.12–91

Radiosonde accuracy evaluation
Marfenko, O. V., 21.5–145

Radiosonde atmospheric electricity
Riekert, H., 21.12–119

Radiosonde comparisons
Vaisala, V., 21.12–104

Radiosonde data
Austria. Zentralanstalt

für Meteorologie und Geodynamik, 21.3–124
  Pantzke, E. et al., 21.10–53

Radiosonde data processing
  Rybin, Iu. N. et al., 21.5–43

Radiosonde development
  Harrison, D. N., 21.5–143

Radiosonde electric field measurements
  Filippov, A. Kh. et al., 21.7–54
  Handman, A. L., 21.7–717

Radiosonde equipment
  Johnson, W. S., 21.5–144

Radiosonde errors
  Marfenko, O. V., 21.5–145

Radiosonde hygrometers
  McIlveen, J. F. R. et al., 21.5–128

Radiosonde humidity errors
  McIlveen, J. R. F. et al., 21.5–128

Radiosonde instruments
  Vaisala, V., 21.12–104

Radiosonde multiplexer
  Peck, R. L., 21.5–146

Radiosonde radiation instruments
  Kostianoĭ, G. N., 21.7–47

Radiosonde radiation measurements
  Rybin, Iu. N. et al., 21.5–43

Radiosonde stations
  Pedersen, B., 21.3–98

Radiosonde temperature errors
  Bridzon, M. B., 21.5–111
  Zaĭchikov, P. F., 21.12–91

Radiosonde thermistors
  Glagolev, Iu. A., 21.5–115

Radiosonde thermometers
  Krechmer, M. V., 21.11–87

Radium-226 radioactive collector
  Bhartendu, —, 21.12–583

Radium-228 in seawater
  Kaufman, A., 21.4–674
  Moore, W. S., 21.9–696

Radium in groundwater
  Kelkar, D. N., 21.12–687

Radium measurement techniques
  Martz, D. E. et al., 21.10–93

Radon-222 in atmosphere
  Wilkening, M. H., 21.12–331

Radon-222 in seawater
  Mathieu, G. G., 21.4–675

Radon concentration
  Lambert, G., 21.12–327

Radon content of springs
  Kelkar, D. N., 21.12–687

Radon daughter ions
  Jonassen, N., 21.12–325

Rain attenuation
  Ruthroff, C. L., 21.6–598

Rain cumuli
  Gashina, S. B. et al., 21.4–116

Rain effects on radio wave transmission
  Kutuza, B. G., 21.1–620; 21.9–49R

Rain floods
  Pavlenko, G. V., 21.12–155
  Vishnevskiĭ, P. F., 21.12–673

Rain forecasting
  Suzuki, E., 21.5–184

Rain formation
  Dingle, A. N., 21.12–396
  Gagin, A., 21.7–118
  Hess, B. et al., 21.5–579
  Kovetz, A. et al., 21.4–286
  Newburg, E. A. et al., 21.1–537
  Reshetov, G. D., 21.7–626
  Squires, P., 21.8–128
  Vergez, M., 21.10–376
  Zaboltskaia, T. N. et al., 21.10–378

Rain gage criteria
  Zeltmann, W. F., 21.3–207

Rain gage data
  Akulinicheva, A. A., 21.12–393
  Kelway, P. S. et al., 21.3–658

Rain gage effectiveness
  Green, M. J., 21.10–81

Rain gage errors
  Hutchinson, P., 21.5–136
  Rodda, J. C., 21.12–101

Rain gage measurements
  Markovich, M. L. et al., 21.4–281
  Woodley, W. et al., 21.7–30

Rain gage network
  Hendrick, R. L., 21.12–100

Rain gage network efficiency
  De Laine, R. J., 21.6–90
  Huff, F. A. et al., 21.5–134, –135; 21.6–91
  Kisilenko, A. A., 21.5–138

Rain gage networks
  Ross, M., 21.3–90

Rain gages
  Harding, J. et al., 21.9–72
  Ruthroff, C. L., 21.6–598

Rain intensity
  Beals, G. A., 21.5–606

Rain models
  Beals, G. A., 21.5–606

Rain–radio wave transmission effects
  Krasiuk, N. P. et al., 21.3–660
  Usikov, A. Ia. et al., 21.5–611

Rain–turbulence effects
  Merceret, F. J., Jr., 21.8–60

Rain washout investigations
  Beilke, S., 21.5–217
  Technology Review [Cambridge, Mass.], 21.5–303

Raindrop breakup
  Blanchard, D. C. et al., 21.6–612
  Latham, J. et al., 21.5–627

Raindrop composition
  Georgiĭ, H. W., 21.11–393

Raindrop erosion
  Shvebs, G. I., 21.10–396

Raindrop fall speed
  Donnadieu, G. et al., 21.3–665

Raindrop formation
  Rosinski, J. et al., 21.1–567

Raindrop growth
  Kornfeld, P., 21.7–546
  Morachevskiĭ, V. G. et al., 21.6–613

Raindrop photography
  Cannon, T. W., 21.6–581

Raindrop sampling
Schecter, R. M. et al., 21.6–88
Raindrop size distribution
Blanchard, D. C. et al., 21.6–612
Dadali, Iu. A., 21.11–40
Jung, E., 21.3–666
Sivaramakrishnan, M. V., 21.2–266
Zabolotskaia, T. N. et al., 21.10–397
Raindrop size distribution measurement techniques
Dadali, Iu. A., 21.11–41
Raindrop sizes
Georgiĭ, H. W., 21.11–393
Raindrop spectrometers
Jung, E., 21.3–666
Raindrops
Dufour, L., 21.9–284
Raindrops size distribution
Ohtake, T., 21.11–392
Rainfall amount–circulation anomaly relationships
Matsuoka, T., 21.9–320
Rainfall anomalies
Mõrth, H. T., 21.9–303
Shukla, J., 21.5–191
Rainfall charts
Grindley, J., 21.8–385
Italy. Servizio Idrografico, 21.8–386
Tomsett, J. E., 21.8–390; 21.9–305
Rainfall computation
Brunet-Moret, Y., 21.7–595
Singleton, F. et al., 21.6–338
Rainfall damage
Zietara, T., 21.9–324
Rainfall data
Agence pour la Securité de la Navigation Aérienne en Afrique et à Madagascar, 21.2–258
Australia. Bureau of Meteorology, 21.4–257
Grindley, J., 21.8–385
Rozova, E. S., 21.8–394
Zambia. Dept. of Meteorology, 21.7–593
Rainfall data analysis
Doberitz, R., 21.5–616; 21.11–329
Gouws, V. C., 21.6–596
Harding, J. et al., 21.9–72
Jenkinson, A. F., 21.10–418
Smirnova, E. A., 21.6–609
Rainfall–depth–duration area studies
Dhar, O. N., 21.11–430
Rainfall distribution
Ananthakrishman, R., 21.12–532
Australia. Bureau of Meteorology, 21.4–257
Brunet-Moret, Y., 21.7–595
Doberitz, R., 21.5–616
Godev, N., 21.8–332
Grindley, J., 21.8–385
Italy. Servizio Idrografico, 21.8–386
Mörth, H. T., 21.9–303
Rosell, D. Z., 21.9–565
Sangmitr, S., 21.8–388
Sekiguti, T. et al., 21.8–389
Rainfall duration
Rozova, E. S., 21.8–394
Rainfall effects on buildings
Shver, T. A., 21.7–591
Rainfall effects on crops
Hartman, L. M. et al., 21.7–621
Rainfall effects on soil
Fukuoka, Y., 21.8–326
Rainfall erosion of soil
Shchegleva, O. P. et al., 21.2–594
Williams, M. A. J., 21.7–622
Rainfall estimates
Mihaila, E. et al., 21.3–38
Rainfall estimation
Datta, R. K., 21.11–386
Hutchinson, P., 21.1–604
Rainfall fallout relationships
Van der Westhuizen, M., 21.3–409
Rainfall forecasting
Bedekar, V. C. et al., 21.10–384
Gocho, Y., 21.12–148, –149
Rainfall frequencies
Parker, A. E., 21.11–385
Portig, W. H., 21.6–604
Rainfall frequency analysis
Raman, V. et al., 21.8–398
Rainfall frequency distribution
Kulkarni, N. S. et al., 21.8–397
Rainfall intensity
Sivaramakrishnan, M. V., 21.2–266
Rainfall intensity calculation
Briggs, J. et al., 21.6–607
Kelway, P. S. et al., 21.3–658
Rainfall intensity duration curves
Le Gourières, D., 21.9–586
Rainfall intensity duration frequencies
Langmann, M. F. et al., 21.8–387
Rainfall intensity durations
Raman, V. et al., 21.8–398
Rainfall intensity gages
Morgan, B. E., 21.3–206
Rainfall measurement accuracy
Borovikov, A. M. et al., 21.6–593
Hutchinson, P., 21.1–604
Rainfall measurement techniques
Wilson, J. W., 21.11–53
Rainfall measurements
De Laine, R. J., 21.6–90
Rainfall measuring stations
Diskin, M. H., 21.5–61
Rainfall mesoanalysis
Kelway, P. S. et al., 21.3–658
Rainfall–meteor shower relationships
Dycus, R. D. et al., 21.1–603
Rainfall patterns
Bedekar, V. C. et al., 21.10–384
Dankwa, J. B., 21.3–655
Grant, P. J., 21.7–601
Langmann, M. F. et al., 21.8–387

  - Rai Sircar, N. C. et al., 21.8–392
- **Rainfall probability**
  - Bailey, M., 21.7–613
- **Rainfall probability estimates**
  - Woodhead, T., 21.9–311
- **Rainfall probability studies in Africa**
  - Gregory, S., 21.12–535
- **Rainfall–radio wave effects**
  - Lane, J. A., 21.11–216
- **Rainfall rate–radar reflectivity relationships**
  - Cataneo, R., 21.3–664
  - Joss, J., 21.11–43
  - Woodley, W. et al., 21.7–30
- **Rainfall recorders**
  - Patrichi, F. et al., 21.5–140
  - Sauer, V. B., 21.12–102
  - Smoot, G. F., 21.12–103
- **Rainfall records**
  - Molina, M., 21.11–22
- **Rainfall reduction**
  - Holle, R., 21.12–201
- **Rainfall regime**
  - Ananthakrishnan, R., 21.12–532
  - El-Tom, M. A., 21.6–595
  - Grant, P. J., 21.7–601
  - Italy. Servizio Idrografico, 21.8–386
  - Langmann, M. F. et al., 21.8–387
  - Osman, O. E., 21.7–589
  - Sangmitr, S., 21.8–388
  - Sekiguti, T. et al., 21.8–389
- **Rainfall regime, Japan**
  - Maejima, I., 21.10–96R
- **Rainfall reliability in Africa**
  - Gregory, S., 21.12–535
- **Rainfall–river flow relationships**
  - Watt, W. E., 21.7–647
- **Rainfall runoff**
  - Befani, A. N., 21.7–644
  - Sapozhnikov, V. I. et al., 21.2–546
- **Rainfall runoff calculations**
  - Subbotin, A. I., 21.8–457
- **Rainfall runoff investigations**
  - Befani, A. N., 21.7–605
  - Sugawara, M., 21.9–605
- **Rainfall–runoff relationships**
  - Alekseev, G. A., 21.6–610
  - Bowers, C. E. et al., 21.1–601
  - Bucuta, E., 21.6–608
  - Bukovszky, G. et al., 21.9–307
  - Datta, R. K., 21.11–386
  - Duff, H. W., 21.7–584
  - Dunin, F. X., 21.6–594
  - Fogel, M. M., 21.8–376; 21.9–339
  - Frind, E. O., 21.7–585
  - Galushchenko, N. G., 21.8–377
  - Hickok, R. B. et al., 21.9–602
  - Ingebo, P. A., 21.1–56
  - Ishihara, Y., 21.11–425
  - Jacquet, J. et al., 21.6–626
  - Koren', V. I. et al., 21.8–473
  - Lee, J. et al., 21.8–456
  - Nemec, J. et al., 21.6–628
  - Rodier, J., 21.7–607
  - Scully, D. R. et al., 21.5–624
  - Seaburn, G. E., 21.11–426
  - Smirnova, E. A., 21.6–609
  - Subbotin, A. I., 21.8–457
  - Sutcliffe, J. V., 21.2–539
  - Veldkamp, F. B., 21.6–600
  - Vinogradov, Iu. B., 21.7–646
  - Wołoszyn, J., 21.8–414
  - Yen, B. C. et al., 21.10–412
- **Rainfall–sea surface temperatures**
  - Doberitz, R., 21.2–208
- **Rainfall simulators**
  - Hall, M. J., 21.2–526
- **Rainfall–soil moisture relationships**
  - Fukushima, A., 21.11–435
- **Rainfall statistics**
  - Dhar, O. N. et al., 21.8–395
  - Levert, C., 21.7–587
- **Rainfall–streamflow relationships**
  - Ingebo, P. A., 21.1–56
  - Petersen, Z. I., 21.8–798
- **Rainfall studies**
  - World Meteorological Organization, 21.5–625
- **Rainfall trends**
  - Adderley, E. E., 21.8–123
  - White, B. J., 21.8–130
- **Rainfall variability**
  - Woodhead, T., 21.9–311
- **Rainfall variations**
  - Dhar, O. N. et al., 21.8–395
- **Rainout of sulfur dioxide**
  - Beilke, S. et al., 21.2–265
- **Rainout radioactivity**
  - Illinois. State Water Survey, Univ. of Illinois, Urbana, 21.11–276
- **Rainstorm analysis**
  - Atlas, D., 21.10–88R
  - Dhar, O. N. et al., 21.10–388; 21.11–430
- **Rainstorm damage**
  - Chen, T. Y., 21.1–612
- **Rainwater analysis**
  - Bhatki, K. S., 21.11–389
- **Rainwater beta activity**
  - Kennedy, W. R. et al., 21.3–404
- **Rainwater composition**
  - Cortecci, G. et al., 21.10–383
  - Handa, B. K., 21.7–624, –625
- **Rainwater salinity measurements**
  - Bhaskara Rao, A. et al., 21.3–198
- **Rainy seasons**
  - Kurashima, A., 21.1–512
  - Osman, O. E., 21.7–589
  - Portig, W. H., 21.6–604
  - Tantawy, A. H. I., 21.7–449
- **Raman scattering intensities measurements**
  - Schwiesow, R. L., 21.12–222
- **Range measurement techniques**
  - Wood, L. E., 21.6–686
- **Rare gases in atmosphere**
  - Jeffery, P. M., 21.5–224
- **Rarefied gas dynamics**
  - Gurevich, A. V., 21.11–187
  - International Symposium

on Rarefied Gas Dynamics, 5th, Univ. of Oxford, 21.1–27

Rawin accuracy tests
Weiss, B. D., 21.12–93

Rawin computation
Wobus, H. B., 21.9–107R

Rawin soundings
Shliakhov, V. I., 21.3–51

Rawinsonde data
Serebreny, S. M. et al., 21.3–74

Rawinsonde data processing
Parry, H. D., 21.6–23

Rawinsonde networks
Fankhauser, J. C., 21.3–475

Ray theory
Bennett, J. A., 21.8–699

Ray tracing techniques
Lloyd, K. H., 21.10–273
Smilauer, J., 21.6–240
Stephenson, J. J. et al., 21.3–377
Surtees, W. J., 21.9–183

Rayleigh scattering
Lenoble, J., 21.4–370

Reclamation projects
DeJong, C. H., 21.2–609

Recombination processes
Hoppel, W. A., 21.8–608

Recording gages
Jones, D. M. A., 21.3–35

Recording psychrometers
Painter, H. E., 21.11–97

Red emission line variations
Smith, R. W., 21.6–394; 21.8–253

Reentry into atmosphere
Wu, S. T., 21.7–247

Reflectance
Sobolev, V. V., 21.8–571

Reflector satellites
Buckingham, A. G. et al., 21.2–120

Refraction angle calculations
Brown, M. S., 21.10–205

Refractive index
Lane, J. A., 21.5–59

Refractive index effects on radar
Ottersten, H., 21.11–47, –48

Refractive index fluctuations
Paltridge, G. W., 21.1–485

Refractive index gradients
Schaffert, U., 21.1–335

Refractive index of quartz
Peterson, J. T. et al., 21.8–144

Refractive index of water
Zuev, V. E. et al., 21.4–667

Refractive index profiles
Börresen, J. A. et al., 21.10–206
Gjessing, D. T. et al., 21.10–208

Refractive index variations
Carlson, A. V. et al., 21.1–480
Degtiarev, G. M., 21.3–390
Janes, H. B. et al., 21.5–358

Refractometer measurements
Ashwell, G. E. et al., 21.4–45

Regression equations
Hounam, C. E., 21.6–349

Regulating algorithms for hydrology
Mukhin, V. M., 21.12–656

Relative humidity
Williams, G. D. V. et al., 21.5–548

Relative humidity variations
Frankenberger, E., 21.6–536

Relaxation methods
Glahn, H. R., 21.3–252

Relay satellite project
U. S. National Aeronautics and Space Administration, 21.1–156

Remote probing lidars
Evans, W. E., 21.7–576

Remote recording instruments
Knibb, R. R. et al., 21.3–179
Kohl, F. V., 21.6–92

Remote sensing equipment
Krause, F. R. et al., 21.10–21

Remote sensing in hydrology
Kennedy, J. M. et al., 21.1–151
Robinova, C. J., 21.2–517

Remote sensing of Earth resources
U. S. National Aeronautics and Space Administration, 21.12–29R

Remote sensing of environment
National Research Council, Wash., D. C., 21.10–22

Remote sensing of environment symposia
Symposium on Remote Sensing in the Polar Regions, Easton, Md., 21.8–17

Remote sensing of oceans
Stehling, K. R., 21.2–691

Remote sensing symposium
Symposium on Remote Sensing of Environment, 1969, 21.10–71

Remote sensors
Symposium on Remote Sensing of Environment, 1969, 21.10–71

Research vessel *Akademik Kurchatov*
Ivanov, V. I., 21.4–659

Research vessel *Coriolis*
Rual, P., 21.4–695

Reservoir deficit
Venetis, C., 21.4–606

Reservoir effects on rivers
Antonov, V. S., 21.4–623
Chekushkina, T. A., 21.12–669
Churchill, M. A., 21.10–743
Filotti, A. et al., 21.10–755
Lauterbach, D. et al., 21.10–716
Tarverdiev, R. B., 21.12–706

Reservoir field measurements
Elder, R. A. et al., 21.4–593

Reservoir floods
  Boĭchuk, V. A. et al., 21.2–608
Reservoir freezing forecasting
  Ginzburg, B. M. et al., 21.2–628
  Valev, M., 21.2–630
Reservoir freeze-up
  Vil'kens, A. A., 21.5–783
Reservoir hydrodynamics
  Elder, R. A. et al., 21.4–593
Reservoir hydrology
  DeJong, C. H., 21.2–609
  Denisov, Iu. M. et al., 21.4–592
  Fedulova, E. M., 21.4–595
  Kamynin, A. F. et al., 21.2–610
  Pitzyk, I. V., 21.4–601
  Riggs, H. C., 21.2–612
  Shereshevskiĭ, A. I., 21.5–769
  Svanidze, G. G. et al., 21.2–613
  Venetis, C., 21.4–605
Reservoir ice
  Bulatov, S. N., 21.3–573
  Vil'kens, A. A., 21.5–783
Reservoir ice breakup
  Bulatov, S. N., 21.6–819
Reservoir intake calculations
  Shereshevskiĭ, A. I., 21.5–769
Reservoir level variations
  Iaroslavtsev, N. A. et al., 21.10–768
Reservoir microclimates
  Rybchenko, A. A., 21.2–306
Reservoir pollution
  Turoboyski, L., 21.9–663
Reservoir–river effects
  Byshovets, L. B., 21.4–580
  Ree, W. O., 21.6–781
Reservoir stratification simulation
  Orlob, G. T. et al., 21.4–598
Reservoir temperature measurements
  Vil'kens, A. A., 21.1–98
Reservoir temperature under ice
  Bulatov, S. N., 21.9–17R
Reservoir temperatures
  Arai, T., 21.11–740, –741
  Bulatov, S. N., 21.3–573
  Epifanov, V. F. et al., 21.6–793
  Rossinskiĭ, K. I. et al., 21.6–794
  Tomik, T., 21.6–795
  Wunderlich, W. O. et al., 21.5–770
Reservoir turbidity
  Laroslavtsev, N. A. et al., 21.10–762
Reservoir utilization
  Weiss, C. M. et al., 21.10–696
Reservoir water quality
  Bernhardt, H., 21.9–662
  Ward, J. C., 21.11–739
Reservoir water storage
  Venetis, C., 21.4–605
Reservoirs
  Vendrov, S. L., 21.2–588
Reservoirs aeration
  Fast, A. W., 21.4–594
Reservoirs storage capacity
  Majumdar, K. D., 21.4–596
Resistance thermometers
  Gershenzon, G. S. et al., 21.5–114
  Sushchinskiĭ, B. L. et al., 21.9–59
Resistance thermometry
  Pontikis, C. et al., 21.6–29
Resonance radiation
  Oraevskiĭ, A. N., 21.8–702
Retrograde cyclones
  Strutu, M. et al., 21.3–453
Return periods for precipitation
  Kangieser, P. C., 21.6–52
Reynold stress measurements
  Hicks, B. B., 21.5–122
  Smith, S. D. et al., 21.2–733
Rheology of ice
  Haefeli, R., 21.6–800
Rhode Island University. School of Oceanography
  Oceanic Citation Journal [La Jolla, Calif.], 21.3–764
Rice contamination
  Myttenaere, C. et al., 21.3–706
Rice culture
  Chapman, A. L., 21.5–491
Rice field irrigation
  Kambhu, M. L. X. et al., 21.10–556
  Potter, K. E. D., 21.10–560
Rice field radiation regime
  Malevskiĭ, S. P., 21.1–52
Rice field temperatures
  Malevskiĭ, S. P., 21.1–52
Rice field water temperatures
  Chapman, A. L., 21.5–491
Rice fields
  Katsurayama, K., 21.6–257
Rice growth
  Verfaillie, G. R. M., 21.8–566
Richardson's number in lower atmosphere
  Panofsky, H. A., 21.1–495
Rickettsioses
  Ivanovici, H. et al., 21.11–467, –468
Rime
  Lityńska, Z. et al., 21.7–557
Rime accretion
  Macklin, W. C. et al., 21.1–572
Rime distribution
  Kilbig, J. et al., 21.5–588
Rime frequencies
  Flocchini, G., 21.2–175
  Kolbig, J. et al., 21.5–588
Rime intensities
  Kolbig, J. et al., 21.5–588
Rime intensity calculations
  Stanev, S., 21.7–559
Ring current effects on auroras
  Zhulina, E. M., 21.9–453
Ring current–geomagnetic storm relationships
  Akasofu, S. I. et al., 21.2–131
Ring current theory
  Starkov, G. V. et al., 21.10–495

Ring currents
  Sozou, C. et al., 21.2–152
Riometer observations
  Juday, R. D. et al., 21.7–411
  Reid, G. C. et al., 21.5–353
Rip currents
  Bowen, A. J., 21.12–769, –770
River alimentation
  Golubev, G. N., 21.2–575
River basin hydrology
  Il'iasov, A. T., 21.8–451
  Ishihara, T., 21.11–719
  Ishihara, Y., 21.11–718
  Kochubei, S. G. et al., 21.4–526
  More, R. J., 21.1–548
  Okunishi, K., 21.11–716
  Shutov, Iu. I., 21.11–710
  Wilgat, T. et al., 21.5–764
River basin management
  Popov, V. V. et al., 21.2–569
River basin studies
  Wilgat, T. et al., 21.5–764
River basins water balance
  Il'iasov, A. T., 21.8–451
River bed relief effects
  Alam, A. M. Z. et al., 21.5–768
River channel and flood frequency
  Dury, G. H., 21.1–800
River channel hydraulics
  Cioc, D., 21.12–709
River channel meandering
  Kondrat'ev, N. E., 21.9–46R
River channel processes
  Dury, G. H., 21.1–800
  Iarnykh, N. A., 21.12–711
  Razvan, E., 21.12–707
River channel studies
  Ishihara, T., 21.11–719
River classification
  Horvathova, B., 21.5–495
River control
  Kornilov, B. A. et al., 21.8–690
  Liepolt, R., 21.9–658
  Nevins, T. H. F., 21.6–783
  Vendrov, S. L., 21.2–588
River curves
  Evstigneev, V. M., 21.9–607
River dimensions
  Rudnev, A. S., 21.2–570
River discharge calculations
  Burkham, D. E., 21.12–702
  Cöntürk, H., 21.10–704
  Csoma, J., 21.9–593
  Mokliak, V. I., 21.12–674, –675
  Shestakova, R. A., 21.9–601
  Zhelenzniak, I. A., 21.4–587
River discharge control
  Parshin, V. N., 21.10–710
River discharge data
  Rodriguez-Iturbe, I., 21.10–753
River discharge estimation
  Goubet, A., 21.7–806
River discharge into oceans
  Bue, C. D., 21.12–698
River discharge measurements
  Florkowski, T. et al., 21.4–589
River discharge of suspended matter
  Grigor'ev, V. I., 21.11–730
River discharges
  Andreianov, V. G., 21.5–767
  Cook, R. E. et al., 21.10–748
  Grigor'ev, V. I., 21.11–730
  Harvey, A. M., 21.11–722
  Latif, A., 21.10–750
  McCarren, E. F. et al., 21.10–746
River dynamics
  Makkaveev, V. M., 21.2–604
River erosion
  Bolesta, W., 21.2–578
  Nuzhdin, B. V., 21.3–744
  Razvan, E., 21.12–707
  Shchegleva, O. P. et al., 21.2–594
  Stepanova, A. I., 21.2–595
River flood plains
  Grushevskiĭ, M. S., 21.10–713
River floods
  Chartier, M. M. et al., 21.8–795
  Drozd, V. V., 21.4–582
  Rodriguez, A., 21.10–718
River floods measurements
  Mociornita, C., 21.7– 802
River flow
  Khmaladze, G. N., 21.1–797
  Kochiashvili, B. M., 21.11–723
  Rostomov, G. D., 21.6–778
River flow computation
  Ratkovich, D. Ia., 21.2–585
River flow dynamics
  Fidman, B. A., 21.6–782
  Grinval'd, D. I. et al., 21.10–761
  Ishihara, Y., 21.11–735
  Tanaka, Y., 21.11–736
  Yokosi, S., 21.11–737
River flow forecasting
  Protas'ev, M. S., 21.12–705
River flow measurement technique
  Chouret, A., 21.11–93R
River flow regulation
  Austford, V. M., 21.6–780
  Kritskiĭ, S. N. et al., 21.2–582
River flow turbulence
  Ishihara, Y. et al., 21.2–603
River flow variations
  Italy. Servizio Idrografico, 21.9–653
River flow velocities
  Carlston, C. W., 21.2–601
River flow velocity calculations
  Golubtsov, V. V., 21.7–811
River flow velocity corrections
  Davis, L. C., Jr., 21.10–693
River forecasting
  Richards, M. M. et al., 21.9–603
  U. S. Weather Bureau, 21.8–788
River freeze-up forecasting
  Bates, R. E. et al., 21.8–812
  Efremova, N. D., 21.6–818
River hydrodynamics
  Fidman, B. A., 21.2–602

  Morisawa, M., 21.2–605
  Simons, D. B., 21.2–606
River hydrography
  Latif, A., 21.10–750
River hydrology
  Andreianov, V. G., 21.5–767
  Chernogaeva, G. M., 21.12–551
  Drozd, V. V., 21.4–582; 21.10–744
  Gartsman, I. N., 21.9–28R
  Gilvarry, J. L., 21.10–760
  Golubev, G. N., 21.2–575
  Grard, R., 21.11–431
  Hurley, P. A., 21.3–673
  Ilesic, S., 21.4–583
  Italy. Servizio Idrografico, 21.9–653
  Iunitsyna, V. P., 21.9–43R
  Johnson, M. L., 21.12–697
  Karasik, G. Ia., 21.12–552
  Lull, H. W. et al., 21.8–797
  Perrin, P., 21.1–645
  Petersen, Z. I., 21.8–798
  Sergutin, V. E., 21.11–727
  Stezhenskaia, I. N., 21.9–349
  Vodogretskiĭ, V. E., 21.4–578
  Williams, R. et al., 21.9–573
  Zhelezniak, I. A., 21.4–587
River ice
  Mathieu, B. et al., 21.8–467
  Tolstikhin, O. N. et al., 21.8–813
River ice breakup
  Bulatov, S. N., 21.6–819
River ice breakup forecasting
  Poliakova, K. N., 21.4–616
River ice conditions
  Bates, R. E. et al., 21.8–812
River ice control
  Piotrovich, V. V., 21.7–819
River ice cover–flow effects
  Rohde, H., 21.4–625
River ice forecasting
  Ginzburg B. M., 21.5–779
  Piotrovich, V. V. et al., 21.4–615
  Zhitskaia, N. V., 21.4–626
River ice formation
  Jarocki, W., 21.2–633
  Miloshevich, V. A., 21.6–823
River ice formation effects on water levels
  Mashukov, P. M., 21.9–346
River ice jams
  Bates, R. E. et al., 21.8–812
  Sofer, M. G., 21.9–671
River ice regime
  Antonov, V. S., 21.4–623
  Ginzburg, B. M., 21.5–779
  Jarocki, W., 21.2–633
  Liser, I. Ia., 21.2–583
River ice thickness
  Zhitskaia, N. V., 21.4–626
River level calculations
  Mikhaĭlov, V. N. et al., 21.1–775
  Netherlands. Rijkswaterstaat, 21.9–655
River level forecasting
  Babak, I. F. et al., 21.2–541
  Klimova, V. V., 21.2–543
  Podvishenskaia, N. Ia., 21.2–590
River level variations
  Rodriguez-Iturbe, I., 21.2–591
River mensuration
  Gilvarry, J. J., 21.10–760
River morphology
  Coleman, J. M. et al., 21.9–652
  Nuzhdin, B. V., 21.3–744
River pollution
  Bestsennaia, M. A., 21.2–596
  Liepolt, R., 21.9–658
  Shemiakina, O. N., 21.2–598
  Sullivan, W. T., 21.2–599
  Williamson, A. E., 21.2–600
River rating curves
  Rantz, S. E., 21.11–726
River regime
  Beard, L. R., 21.2–576
  Beckinsale, R. P., 21.1–798, –799
  Churchill, M. A., 21.10–743
  Coleman, J. M. et al., 21.9
    652
  Gerasimov, S., 21.4–517
  Grinevich, G. A. et al
    21.2–581
  Harvey, A. M., 21.11–72
  Ilesic, S., 21.4–583
  Malik, L. K., 21.9–308
  Panaiotov, T., 21.9–348
  Perrin, P., 21.1–645
  Rodriguez-Iturbe, I., 21.2
    591
  Stall, J. B. et al., 21.2–58
  Stezhenskaia, I. N., 21.
    349
  Vendrov, S. L., 21.2–588
River regulation
  Popov, V. V. et al., 21.2
    569
River runoff
  Eipre, T. F., 21.11–729
River runoff calculations
  Befani, A. N. et al., 21.1
    774
  Mankish, V. D., 21.11–72
  Mikhaĭlov, V. N. et al
    21.1–775
  Ratkovich, D. Ia., 21.9–30
  Rozhdestvenskiĭ, A. V., 21.9–69R
  Tikhotskiĭ, K. G., 21.2–54
River runoff charts
  Dreier, N. N., 21.11–728
River runoff data analysis
  Davletgaliev, S. K., 21.10
    752
River runoff distribution
  Tikhotskiĭ, K. G., 21.2–54
River runoff forecasting
  Abal'ian, T. S., 21.9–1R
  Boldyrev, V. M. et al
    21.4–522
  Cechova, I., 21.6–632
  Hladny, J. et al., 21.4–52
  Mandadzhiev, D., 21.2–54
  Mel'nikova, Z. D., 21.9
    56R
  Semenova, Z. D., 21.7–64
River runoff formation
  Golubev, G. N., 21.1–644
River runoff–karst relationships
  Mankish, V. D., 21.11–72
River runoff variability
  Panaiotov, T., 21.9–348

River runoff variations
- Bass, S. V., 21.11–684
- L'vovich, M. I., 21.11–685
- Smirnov, N. P., 21.12–554
- Stachy, J. et al., 21.2–280
- Vas'kovskiĭ, M. G., 21.2–587

River–sea water mixing
- Conomos, T. J. et al., 21.1–755

River sediment transport
- Filotti, A. et al., 21.10–755
- Kupche, L. V., 21.2–593
- Nevins, T. H. F., 21.6–783
- Rathbun, R. E. et al., 21.10–684
- Razvan, E., 21.12–707
- Shcheglova, O. P. et al., 21.2–594
- Stepanova, A. I., 21.2–595

River sediment transport measurements
- Fredriksen, R. L., 21.9–579

River sedimentation dynamics
- Popescu, N., 21.11–725

River slope–discharge relationships
- Carlston, C. W., 21.2–579

River suspended matter discharge
- Mikhaĭlov, V. N. et al., 21.1–775

River systems
- Faniran, A., 21.1–796

River temperature
- Brown, G. W., 21.10–754

River temperature determination
- Dmitriev, A. A. et al., 21.3–574

River temperature–ice effects
- Dingman, S. L. et al., 21.4–505

River temperature regime
- Tarverdiev, R. B., 21.12–706

River temperature variations
- Dingman, S. L. et al., 21.4–505

River temperatures
- Diukel', N. G., 21.12–463
- Horvathova, B., 21.5–495
- Moore, A. M., 21.6–469

River water alkalinity
- Park, P. K. et al., 21.4–577

River water analysis
- Shemiakina, O. N., 21.2–598

River water composition
- Hitchon, B. et al., 21.10–745
- Italy. Servizio Idrografico, 21.9–653
- McCarren, E. F. et al., 21.10–746
- Uryvaev, A. P., 21.9–92R

River water mixing
- Bestsennaia, M. A., 21.2–596
- Shull, R. D. et al., 21.9–659

River water pollution
- Berg, J., 21.6–784
- Drachev, S. M. et al., 21.4–591
- *Environmental Science and Technology* [Wash., D. C.], 21.8–697
- Freychuss, S., 21.9–656
- Hellmann, H., 21.12–695
- Howells, G. P. et al., 21.10–756
- LeClerc, E., 21.9–657
- Nelson, G., 21.4–671
- Netherlands. Institute of Sewage Purification and Industrial Waste Treatment, 21.10–757
- Piech, K. R., 21.7–809
- Porges, R., 21.10–758
- Shull, R. D. et al., 21.9–659
- Tarassov, V. J. et al., 21.10–579
- Waggot, A., 21.7–810

River water temperature forecasting
- Morse, W. L., 21.11–120

River water turbidity
- Drachev, S. M. et al., 21.4–591
- Italy. Servizio Idrografico, 21.9–653
- Stepanova, A. I., 21.2–595

Rocket airglow observations
- Meier, R. R., 21.6–390
- Tarasova, T. M., 21.8–254
- Tisone, G. C., 21.11–212
- Wallace, L. et al., 21.3–507

Rocket and satellite research
- Rofe, B., 21.11–67
- Stewart, K. H., 21.3–138

Rocket antennas
- Stone, R. G. et al., 21.3–378

Rocket attitude determination
- Ivanova, I. N., 21.12–67

Rocket auroral investigations
- Bernstein, W. et al. 21.11–512
- Courtier, G. M. et al., 21.10–504
- Dick, K. A. et al., 21.9–443
- Jacobs, K. G. et al., 21.6–230
- McNamara, A. G. 21.9–447
- Miller, J. R. et al., 21.10–516
- Murcray, W. B., 21.11–536
- Opal, C. B. et al., 21.10–520
- Rettie, R. S., 21.3–144
- Riedler, W., 21.10–521
- Ulwick, J. C., 21.11–525
- Wax, R. L., 21.11–527
- Whalen, B. A. et al., 21.10–524

Rocket chemical releases
- Harang, O., 21.6–63

Rocket chemical seeding experiments
- Sheppard, L. M., 21.1–320

Rocket data
- Japan–U. S. Meteorological Rocket Project, 21.1–145

Rocket dayglow observation
- Hirao, K. et al., 21.8–180
- *U. S. Air Force Office of Aerospace Research, Research Review,* 21.4–364

Rocket density measurements
- Westlund, C. D., 21.12–208

Rocket exploration of upper atmosphere
  Barron, R. L., 21.7–156
  Webb, W. L., 21.1–323
Rocket grenade experiments
  De Mendonca, F. et al., 21.5–80
  Karjoto, — et al., 21.6–57
Rocket-ignited lightning
  Kasemir, H. W., 21.12–586
Rocket instrumentation
  Besiadovskiĭ, E. A., 21.11–68
  Hirling, G., 21.3–143
  International Council of Scientific Unions, 21.5–90
  Rettie, R. S., 21.3–144
Rocket ionospheric interaction
  Stone, R. G., 21.3–378
  Vas'kov, V. V., 21.12–312
Rocket ionospheric investigations
  Getmantsev, G. G. et al., 21.8–177
  Hirao, K. et al., 21.8–180
  Oya, H. et al., 21.10–177
  Prakash, S. et al., 21.10–181
  Seliga, T. A., 21.10–188
Rocket ionospheric measurements
  Cumme, G. A. et al., 21.10–161
  Dorling, E. B. et al., 21.3–373
  Folkestad, K. et al., 21.9–163
  Mechtly, E. A. et al., 21.11–203
  Rao, U. R., 21.11–205
  Sagalyn, R. C. et al., 21.6–123
  Smith, L. G., 21.10–192
Rocket ionospheric soundings
  Goncharov, L. P., 21.12–299
  Reddy, C. A. et al., 21.10–184
  Rubio, R., 21.2–78
Rocket measurement of atmospheric electricity
  Aggson, T. L., 21.8–597
  Bragin, Iu. A., 21.11–505
Rocket measurement of auroral electrons
  Rees, M. H., 21.9–449
Rocket measurement of charged particles
  Nakagawa, S., 21.11–296
Rocket measurement of cosmic rays
  Nakagawa, S., 21.11–296
Rocket measurement of upper air oxygen
  Perov, S. P., 21.11–31
Rocket measurement of upper air winds
  Walczewski, J., 21.6–30
Rocket measurements
  DeLeeuw, J. H. et al., 21.3–55
  Perov, S. P. et al., 21.3–59
  Von Zahn, U. et al., 21.3–326
  Wildman, P. J. L., 21.3–327
Rocket meteoric dust measurements
  Hemenway, C. L., 21.12–612
  Nazarova, T. N., 21.10–639
Rocket micrometeorites measurements
  Lindblad, B. A., 21.8–584
  Skrivanek, R. A. et al., 21.10–640
Rocket noctilucent cloud observations
  Skrivanek, R. S. A., 21.11–500
Rocket observation of dayglow
  Dandekar, B. S., 21.10–477
Rocket observation of night airglow
  Ingham, M. F., 21.8–249
Rocket observation of solar X-rays
  Acton, L. W. et al., 21.2–129
Rocket observation of Sun
  Tousey, R. et al., 21.2–503
Rocket observations
  Markov, M. N., 21.4–55
Rocket ozone measurement
  Hilsenrath, E. et al., 21.6–211
  Krueger, A. J., 21.5–329
Rocket-released chemicals
  Andreeva, L. A., 21.12–
  Miller, G. K., 21.12–31
Rocket solar spectrum observations
  Bates, B., 21.11–659
  Burton, W. M., 21.2–4
  Fredga, K., 21.1–708
  Parkinson, W. H. et a 21.10–668
Rocket soundings
  Besiadovskiĭ, E. A. et a 21.3–125; 21.11–68
  Bollermann, B., 21.11–69
  Daniel, O. H., 21.11–24
  Shearman, R. J., 21.7–42
  Shvidkovskiĭ, E. G., 21.1 76
  Smith, W. S. et al., 21. 83
Rocket spectroscopy
  Harang, O., 21.6–63
Rocket Sun observations
  Widing, K. G., 21.2–457
Rocket Sun photography
  Burton, W. M., 21.5–721
Rocket symposia
  International Council Scientific Unions, 21. 90
Rocket telemetering equipment
  Ermakov, V. I., 21.11–7 –73
Rocket temperature instruments
  Hyson, P., 21.12–89
  Kennedy, B. W., 21.3–1
  Yata, A., 21.12–90
Rocket temperature measurements
  Arizumi, N. et al., 21. 140
Rocket thermistor accura
  Toscano, W. M., 21.5–1
Rocket tracking
  Dul'kin, N. G., 21.11–71
Rocket trajectory computation
  Borsody, J., 21.11–70
  Dunaway, G. L., 21.12–6
  Seagraves, M. A. 21.11–74, –75
Rocket upper air data
  Ahmad, M. S., 21.7–470

Rocket upper air soundngs
Morris, J. E., 21.11–478
Von Zahn, U., 21.12–281
Rocket upper air temerature measurements
Miller, A. J. et al., 21.4–173
Rocket upper atmosphere composition
Offermann, D. et al., 21.5–318
Rocket upper atmosphere composition measurements
Arnold, F. et al., 21.5–308
Biuro, E. D. et al., 21.6–198
Golishev, G. I., 21.5–312
Tisone, G. C., 21.11–212
Rocket upper atmosphere effects
Fehr, U., 21.9–160
Rocket upper atmosphere exploration
Biuro, E. D. et al., 21.5–309
Rocket water vapor measurements
Fedynskiĭ, A. V., 21.5–49
Rocket wind measurements
Arizumi, N. et al., 21.3–140
Bhavsar, P. D., 21.7–503
Miller, A. J., 21.6–513
Pachomov, S. V., 21.3–628
Rees, D., 21.7–201
Rocket X-radiation measurement
Boldt, E. A. et al., 21.8–258
Harri, J. et al., 21.2–165
Matsuoka, M. et al., 21.8–307
Oda, M., 21.8–289
Wilson, B. G. et al., 21.7–388
Rocket X-ray measurements
Bunner, A. N. et al., 21.5–462
Green, D. W. et al., 21.5–463
Rocketborne cryoconenser
Martell, E. A., 21.6–64
Rocketborne electric field robe
Oya, H., 21.12–117
Rocketborne instruments
Szachta, F. D., 21.2–26
Rocketborne ionospheric probes
Hirao, K., 21.6–120
Mozer, F. S., 21.6–121
Oya, H., 21.6–122
Smith, L. G., 21.6–124
Rocketborne magnetometers
Lerfald, G. M. et al., 21.1–678
Rocketborne mass spectrometers
Chizhov, A. F., 21.10–314
Rocketborne ozonesondes
Randhawa, J. S., 21.4–59; 21.7–70; 21.12–122
Rocketborne photometers
Dick, K. A. et al., 21.9–443
Tohmatsu, T., 21.3–179
Rocketborne tracer chemicals
Trowbridge, C. A. et al., 21.1–487
Rocketsonde temperature errors
Ballard, H. N. et al., 21.7–50
Bulanova, L. K., 21.12–88
Rocketsonde temperatures
Schmidlin, F. J., 21.3–557
Rocketsonde thermistors
Bulanova, L. K., 21.12–88
Rocketsondes
Brian, M., 21.6–96
Rockwell polar flight
Korff, S. A., 21.4–393
Rodionov, S. F., Biography
Movchan, B. N., 21.11–53R
Rossby waves
Gates, W. L., 21.2–758
Gilman, P. A., 21.5–397
Keller, J. B., 21.1–736
Lindzen, R. S., 21.1–390
McIntyre, M. E., 21.5–540
Maruyama, T., 21.7–275
Thompson, R., 21.2–744
Rossby waves in solar atmosphere
Gilman, P. A., 21.9–542
Kato, S. et al., 21.8–753
Rossby waves kinematics
Murakami, T., 21.11–258
Rotating fluid experiments
Wilkins, E. M. et al., 21.3–633
Rotating fluid motion
Merilees, P. E., 21.5–379
Rotation of Jupiter
Olsson, C. N. et al., 21.8–729
Rotation of solar atmosphere
Livingston, W. C., 21.6–715
Rotational temperatures
Margolis, J. S. et al., 21.7–760
Roughness coefficient of rivers
Golovachev, V. S., 21.11–733
Zielinska, M., 21.11–734
Roughness effects
Blackadar, A. K. et al., 21.1–357
Bradley, E. F., 21.1–519
Chamberlain, A. C., 21.1–490
Csanady, G. T., 21.1–367
Peterson, E. W., 21.1–521
Roughness effects on wind speed
Taylor, P. A., 21.1–524
Roughness parameters
Lettau, H., 21.6–279
Stearns, C. R., 21.12–359
Ruby laser radar
McCormick, P. D., 21.7–56
Runoff
Glymph, L. M. et al., 21.10–680
Kirkby, M. J., 21.1–771
Morgan, M. A., 21.1–772
Runoff analysis
Dumas, A. J. et al., 21.6–624
Rybkina, M. P. et al., 21.4–528
Runoff calculations
Anosova, L. S., 21.11–687
Chebotarev, A. I. et al., 21.9–592
Gurevich, M. I., 21.2–535
Karasev, I. F. et al., 21.4–518
Kennedy, R. J. et al., 21.9–598
Kuchment, L. S., 21.2–538; 21.3–745

- Shcheglova, O. P., 21.4–521
- Tryselius, O., 21.10–706
- Wołoszyn, J., 21.8–414

Runoff coefficient determination
- Vazhnov, A. N., 21.10–707

Runoff computations
- Gerasimov, S., 21.4–517
- Kuksin, I. E., 21.4–519
- Kurdov, A. G., 21.4–520
- Svanidze, G. G., 21.12–676

Runoff control
- Tadmor, N. H. et al., 21.5–648

Runoff data analysis
- Ishihara, Y., 21.11–689
- Kalinin, G. P. et al., 21.6–755
- Saldarriaga, J., 21.11–383
- Vazhnov, A. N., 21.10–707

Runoff distribution
- Kamalov, B. A., 21.5–647

Runoff distribution with elevation
- Kamalov, B. A., 21.5–647

Runoff estimates
- Dunin, F. X., 21.6–594

Runoff estimation
- Bagley, J. M. et al., 21.9–590
- Sutcliffe, J. V., 21.2–539

Runoff forecasting
- Gurevich, M. I., 21.2–535
- Lee, J. et al., 21.8–456
- Osadchaia, N. N., 21.12–663

Runoff forecasting techniques
- Hickok, R. B. et al., 21.9–602

Runoff forecasts
- Parshin, V. N., 21.10–710

Runoff formation
- Il'iasov, A. T., 21.8–451
- Sosedov, I. S., 21.3–663

Runoff from cultivated fields
- Surmach, G. P. et al., 21.9–340

Runoff hydrographs
- Terstriep, M. L. et al., 21.5–649

Runoff models
- Kibler, D. F., 21.11–678
- Sredneaziatskiĭ Nauchno-Issledovatel'skiĭ Gidromet. Inst., Tashkent, 21.11–104R

Runoff plots on agricultural fields
- Pikush, N. V., 21.12–550

Runoff process model
- Kuchment, L. S., 21.2–538; 21.3–745

Runoff–rainfall relationship
- Meerson, T. I., 21.12–679

Runoff rates
- Kalinin, G. P. et al., 21.6–755

Runoff regime
- Grimm, F., 21.4–515
- Lavrent'ev, P. F. et al., 21.4–516
- Qashu, H. K., 21.5–656

Runoff variations
- Dumas, A. J. et al., 21.6–624
- Koronkevich, N. I., 21.12–549
- L'vovich, M. I., 21.11–361

Runway visual range
- Blanchard, J. W., 21.6–575
- Descamps, V. J., 21.2–340

Runway visual range improvement
- Appleman, H. S., 21.11–136

Runway visual range measurements
- Riissanen, J. et al., 21.9–77

Rural watershed
- Moore, W. L. et al., 21.8–794

Russian forecaster, E. U. Maidel
- Ioselev, Ia. Kh., 21.11–52R

S

S_D-variations
- Belousov, B. G. et al., 21.10–152

SKAMP (Station Keeping and Mobile Platform)
- *Wetter und Leben* [Vienna], 21.11–63

Sq-current system
- Stening, R. J., 21.10–194

Sq-variations
- Wagner, C. U., 21.5–736

SST and weather
- Chaplin, J. C., 21.11–79R

STOR program
- California. Univ., Sa Diego, 21.9–110R, –111

Sager weathercaster
- Sager, R. M. et al., 21.3 175

Saint Vénant's equations
- Cioc, D., 21.12–709
- Koren', V. I., 21.2–537

Saline soils
- Hrasko, J., 21.3–705
- Maslennikov, V. V., 21.4 397

Saline water treatment
- McCutchan, J. W., 21.1 730

Saline water use
- Banerji, S., 21.2–709

Salinity
- International Council f the Exploration of th Sea, 21.11–61R
- Wooster, W. S., 21.2–71

Salinity–chlorinity relationships
- Wooster, W. S. et al 21.5–794

Salinity data
- Australia. Commonwealt Scientific and Indu Organization, Div. Fisheries and Oceanog raphy, 21.2–670
- Gilbert, W. et al., 21.1–71

Salinity definition
- Wooster, W. S. et al 21.4–673; 21.5–794

Salinity–deuterium relationships
- Ehhalt, D. H., 21.4–679

Salinity instruments
- Thayer, O. E. et al., 21.9 676

Salinity measurement tech niques
- Shaub, Iu. B., 21.2–763
- Teterin, V. P., 21.11–444

Salinity measurements
- Huebner, G. L., 21.2–762

Salinity of sea ice
- Lake, R. A. et al., 21.5–78

Salinity of seawater
- Cassinis, R., 21.8–793
- Weyl, P. K., 21.9–712

Salinity–oxygen relationships
- Rochford, D. J., 21.2–732

Salinity profiles
- Stern, M. E. et al., 21.9–714
- Weyl, P. K., 21.9–712

Salinity regime
- Shonting, D. H., 21.12–772
- Vladimirov, O. A. et al., 21.9–729

Salinity structure
- Pingree, R. D., 21.4–709

Salinity–temperature–depth measuring system
- Tackabery, R. E., 21.4–646

Salinity–temperature–depth recorders
- Graefe, V. et al., 21.7–834

Salinity variations
- Midttun, L., 21.10–826
- Otto, L., 21.2–767

Salt accumulation processes
- Bagirova, R. I., 21.1–647

Salt spray transport
- Tsyganenko, A. F., 21.4–234

Sand dune formation
- Hanna, S. R., 21.4–232

Sand storm electrification
- Stow, C. D., 21.3–696

Sand waves in rivers
- Tanaka, Y., 21.11–732

Sanitary engineering conferences
- Sanitary and Water Resources Engineering Conference, 21.12–655

Santa Ana wind
- Kurtz, E., 21.2–774
- Ryan, B. C., 21.10–340

Satellite
- Reichert, A., 21.3–161

Satellite acceleration
- Buffeni, L. et al., 21.1–421

Satellite aerodynamics
- Barnwell, R. W., 21.3–698

Satellite air density measurements
- Cook, G. E., 21.12–204, –205
- Schaefer, D. et al., 21.9–116

Satellite air pollution estimates
- Ludwig, C. B. et al., 21.5–267

Satellite–aircraft radio link
- Jordan, K. L., Jr., 21.12–73

Satellite airglow observation
- Krasnopol'skiĭ, V. A., 21.3–521
- Meier, R. R., 21.6–390
- Warnecke, G. et al., 21.3–523; 21.5–458

Satellite albedo measurements
- Iozenas, V. A. et al., 21.1–325
- Vonder Haar, T. H., 21.7–328

Satellite astrophysics
- Grobman, W. D. et al., 21.3–711

Satellite atmospheric density measurements
- Newton, G. P. et al., 21.5–216

Satellite atmospheric structure measurements
- Graves, M .E. et al., 21.2–21

Satellite auroral radiation observation
- Joki, E. G., 21.11–517

Satellite balloons
- Slowey, J. W., 21.5–101
- Vanderburgh, R. C., 21.3–167

Satellite charged particle measurements
- Johnson, R. G. et al., 21.10–512
- Sharp, R. D., 21.11–523
- Vernov, S. N. et al., 21.2–154

Satellite cloud data
- Alekseeva, I. A., 21.3–100
- Dziubenko, T. D. et al., 21.2–93

Satellite cloud data analysis
- Shaĭmardanov, M. Z., 21.12–43

Satellite cloud estimates
- Hauth, F. F. et al., 21.8–365

Satellite cloud observations
- Bjerknes, J. et al., 21.6–589
- Winston, J. S., 21.8–52

Satellite cloud photograph analysis
- Malberg, H., 21.12–78
- Tsuchiya, K. et al., 21.2–107
- *Weather* [London], 21.7–513

Satellite cloud photograph synoptic analysis
- Anderson, R. K. et al., 21.5–91

Satellite cloud photograph use
- Bogomolov, O. S., 21.11–6R

Satellite cloud photographs
- Alexander, R. M., 21.2–20
- Fujita, T. T., 21.12–70
- Merritt, E. S. et al., 21.5–419
- Smigielski, F. J., 21.12–42
- Streten, N. A., 21.3–164

Satellite cloud photography
- Bel'skaia, N. N., 21.12–376
- Bonner, W. D. et al., 21.3–148
- Bradbury, D. L., 21.12–401
- Brodrick, H. J. et al., 21.3–459
- Bugaev, V. A. et al., 21.3–149; 21.11–78; 21.12–377
- Chang, C. P., 21.6–592
- Chang, D. T. et al., 21.5–414
- Clark, J. R. et al., 21.5–92
- Cox, J. L. et al., 21.6–339
- Dean, G. A., 21.4–270
- Freeman, J. C., 21.12–130
- Fujita, T., 21.3–485; 21.6–578
- Hlachova, P., 21.8–366
- In'kov, B. K., 21.7–300
- Izawa, T., 21.7–583
- Kornfield, J. et al., 21.7–577
- Magono, C. et al., 21.4–271
- Mancuso, R. L. et al., 21.3–69

  Morton, W. T., 21.4–272
  Mukherjee, A. K. et al., 21.7–296
  Ninomiya, K., 21.12–399
  Novak, C. S., 21.3–71
  Oliver, V. J. et al., 21.5–391; 21.8–48
  Raghavan, K., 21.9–51
  Whitehead, V. S. et al., 21.7–582
  Williams, J. T., Jr., 21.3–169
Satellite cloud picture evaluation
  Tanczer, T., 21.5–53
Satellite cloud studies
  Dziubenko, E. V. et al., 21.3–202
Satellite communication
  Misme, P., 21.10–64
  Mullen, J. P., 21.10–65
Satellite communication studies
  U. S. National Aeronautics and Space Administration, 21.1–156
Satellite cosmic dust measurements
  Berg, O. E. et al., 21.4–433
  Konstantinov, B. P. et al., 21.2–451
Satellite cosmic radio noise investigations
  Danilin, V. A., 21.12–294
Satellite cosmic ray measurements
  McDonald, F. B., 21.10–298
Satellite data
  Egorova, I. R., 21.2–104
  Tyagi, T. R., 21.3–165
Satellite data, meteorological
  U. S. Environmental Data Service, 21.11–59R
Satellite data analysis
  Spohn, C. A., 21.9–52
Satellite data catalogs
  Allied Research Associates, Inc. Concord, Mass., 21.3–122
Satellite data corrections
  Hopfield, H. S., 21.3–346
Satellite data processing
  Leese, J. A. et al., 21.5–97
  Wisconsin Univ., Madison. Dept. of Meteorology, 21.8–53
Satellite data utilization
  Leese, J. A., 21.5–97
  Spohn, C. A., 21.9–52
Satellite density measurements
  Barlier, F., 21.4–35
  Broglio, L., 21.7–126
  Lusignan, B. B., 21.7–20
  Newton, G. P. et al., 21.3–314; 21.12–206
Satellite development
  Nordberg, W., 21.5–99
Satellite drag analysis
  Roemer, M., 21.9–149
  Schaefer, D. et al., 21.9–116
Satellite electric field measurements
  Gurnett, D. A. et al., 21.4–383
Satellite electron density observations
  Dieminger, W. et al., 21.4–62
Satellite electron observations
  Arnoldy, R. L. et al., 21.6–396
  Imhof, W. L. et al., 21.8–275
  Pfitzer, K. A. et al., 21.10–287
  Rees, M. H., 21.9–449
  Whipple, E. C. et al., 21.1–161
  Whipple, E. C., Jr., 21.2–155; 21.4–154
Satellite electrostatic analyzer
  Hundhausen, A. J., 21.4–384
Satellite experiments
  Nature [London], 21.3–150
Satellite exploration of the upper atmosphere
  Barron, R. L., 21.7–156
  Fischbach, F. F. et al., 21.6–21
  Kliore, A., 21.6–22
  Pilipowskyj, S., 21.10–66
Satellite gamma radiatio measurements
  Fichtel, C. E. et al., 21. 696
Satellite geology
  Pouquet, J., 21.1–155
Satellite geomagnetic fie measurements
  Hruska, A. et al., 21.5–7
Satellite ground systems
  Portune, J. E. et al., 21.1 37
  Vaisala News [Helsink 21.3–153
Satellite humidity estimates
  House, F. B. et al., 21. 170
  Obukhov, A. M. et a 21.8–346
Satellite hurricane observations
  Albert, M. R., 21.5–420
Satellite hydrology
  Baker, D. R., 21.11–48R
  Kennedy, J. M. et a 21.1–151
  McClain, E. P., 21.11–82
  National Research Cou cil, Wash., D. C., 21. 49
  Temnikov, S. N., 21.12–
Satellite ice photographs
  Kaminski, H., 21.12–74
  McClain, E. P. et a 21.5–98
Satellite ice surveillance
  Polar Record [Cambridge, Eng.], 21.2–635
Satellite ice surveillance studies
  Glade, P., 21.11–80
  Knapp, W. W., 21.4–622
  Siniurin, Iu. N., 21.4–612
  Swithinbank, C., 21.2–634
Satellite infrared radiati data
  Conrath, B. J., 21.3–75
  LaViolette, P. E. et a 21.2–667
  Martin, F. L., 21.3–582
  Wilkerson, J. C. et a 21.4–184

Satellite infrared radiation data analysis
Buettner, K. J. K. et al., 21.5–456
Conrath, B. J., 21.2–238
Cook, A. K., 21.1–150
Wark, D. Q., 21.11–35
Satellite infrared radiation measurements
Cook, A. K., 21.1–150
Kondrat'ev, K. Ia. et al., 21.6–383
Koppany, G., 21.3–155
Satellite infrared radiation studies
Bandeen, W. R., 21.6–65
Girard, A., 21.12–426
Godson, W. L., 21.6–347
Rogers, J. F., 21.7–333
U. S. National Environmental Satellite Center, 21.6–70
Vetlov, I. P., 21.11–83
Satellite instrumentation
Radio Corporation of America, 21.9–50
Vaisala News [Helsinki], 21.3–153
Wisconsin Univ., Madison. Dept. of Meteorology, 21.8–53
Satellite interaction with upper atmosphere
Samir, U., 21.1–318
Satellite interplanetary dust measurements
Bandermann, L. W., 21.6–691
Elsässer, H., 21.2–416
Hodge, P. W. et al., 21.7–743
Roosen, R. G. et al., 21.7–744
Satellite interplanetary plasma measurements
Die Umschau [Frankfurt a.M.], 21.5–94
Satellite ion observations
Hundhausen, A. J., 21.4–384
Samir, U., 21.1–318
Satellite ionospheric density measurements
Al'pert, Ia. L. et al., 21.4–60
Satellite ionospheric electron density
Arendt, P. R. et al., 21.8–159
Satellite ionospheric interaction
Bud'ko, N. I., 21.5–339
Kasha, M. A., 21.10–170
Liu, V. C. et al., 21.3–215; 21.7–193
Samir, U., 21.10–67
Vas'kov, V. V., 21.12–312
Satellite ionospheric investigations
Bertel, L., 21.7–175
Canadian Scientist [Toronto], 21.1–147
Fatkullin, M. N. et al., 21.8–174
Getmantsev, G. G. et al., 21.8–177
Hartmann, G. K., 21.9–168
Horita, R. E. et al., 21.6–227
Mitiakova, E. E., 21.8–192
Wrenn, G. L. et al., 21.7–209
Satellite ionospheric measurements
Alpert, I. L. et al., 21.1–668
Brace, L. H., 21.11–172
Brinton, H. C. et al., 21.11–175
Colin, L. et al., 21.10–160
Donley, J. L. et al., 21.10–162; 21.11–182
Dzhordzhio, N. V. et al., 21.5–344
Hoffman, J. H., 21.10–61
Sagalyn, R. C. et al., 21.6–123
Titheridge, J. E. et al., 21.8–203
Thomas, G., 21.8–204
Wrenn, G. L. et al., 21.10–201
Satellite ionospheric studies
Lundbak, A. N., 21.11–199
Satellite magnetic measurements
Gurnett, D. A. et al., 21.4–383
Satellite magnetospheric observations
Kaufmann, R. L., 21.3–387
Whipple, E. C., Jr., 21.4–154
Satellite marine meteorology
Raghavan, K., 21.9–51
Tilden, C. E. et al., 21.5–27
U. S. National Environmental Satellite Center, 21.6–70
Satellite marine research
Williams, G. F., Jr., 21.6–835
Satellite measurements
Becker, R. A., 21.3–146
Satellite meteoric dust measurements
Nazarova, T. N., 21.10–639
Satellite meteorological data
Allied Research Associates, Inc., Concord, Mass., 21.11–54R
Satellite meteorological measurements
Lusignan, B. et al., 21.1–152
Satellite meteorology
Borisenkov, E. P. et al., 21.9–46
Holdsworth, N., 21.9–48
Kaminski, H., 21.5–96
Kozuchowski, K., 21.11–81
Leningrad. Glavnaia Geofizicheskaia Observatoriia, 21.11–86R
Morskoĭ, G. I., 21.2–236
Stevenson, R. E., 21.6–69
Satellite micrometeorite measurements
Jennison, R. C., 21.12–613
Satellite micrometeorite observation
Konstantinov, B. P., 21.12–614
Nilsson, C. S., 21.11–602
Skrivanek, R. A. et al., 21.10–640
Satellite navigation uses
Ehrlich, E., 21.2–395
Roese, D. W., 21.2–396

Satellite night sky brightness measurements
  Dimov, N. A. et al., 21.7–349
Satellite observation of ELF emissions
  Holtet, J. et al., 21.10–535
  Russell, C. T. et al., 21.9–459
Satellite observation of hurricanes
  Carlson, T. N., 21.12–384
  Hubert, L. F. et al., 21.1–408
Satellite observation of magnetosphere
  Grard, R., 21.7–211
Satellite observation of plasmapause
  Chappell, C. R. et al., 21.6–246
  Harris, K. K. et al., 21.6–248
Satellite observation of radiation belts
  Fritz, T. A. et al., 21.8–270
  Vernov, S. N. et al., 21.2–154
Satellite observation of solar radio noise
  Stone, R. G. et al., 21.4–453
Satellite observation of tornadoes
  Fujita, T. T., 21.11–274
Satellite observation of tropical cyclones
  Mukherjee, A. K. et al., 21.7–296
Satellite observation of VLF emissions
  Burtis, W. J., 21.2–379
Satellite observations
  Bilello, M. A., 21.1–625
  Brodrick, H. J., Jr., 21.1–400
  Facilities for Atmospheric Research [Boulder, Colo.], 21.5–100
  Haupt, I., 21.2–18
  King-Hele, D. G. et al., 21.3–312, –313
  Kostko, O. K., 21.5–316
  Markov, M. N., 21.4–55
  Page, T., 21.5–38
Satellite ocean–atmosphere investigations
  ESSA News [Rockville, Md.], 21.1–160
Satellite ocean surface measurements
  Strong, A. E. et al., 21.4–740
Satellite oceanography
  American Oceanography [Houston, Tex.], 21.10–788
  LaViolette, P. E., 21.3–758
  McClain, E. P., 21.11–82
  Stevenson, R. E., 21.6–69
Satellite optical observations
  Bellman, R. et al., 21.8–570
  Morrison, F., 21.6–68
Satellite orbit calculations
  Slowey, J. W., 21.5–101
Satellite orbit perturbations
  Ural'skaia, V. S., 21.3–166
Satellite orbit prediction
  Morrison, F., 21.6–68
Satellite orbits
  Roy, A. E., 21.3–162
Satellite ozone estimates
  Anderson, G. P. et al., 21.6–207
  Sekihara, K., 21.5–332
Satellite ozone estimations
  Iozenas, V. A. et al., 21.1–325
Satellite ozone measurements
  Iozenas, V. A. et al., 21.3–363
Satellite ozone soundings
  Knight, E., 21.11–170
Satellite photograph analysis
  McClain, E. P. et al., 21.5–98
  Stevenson, R. E., 21.6–69
  Zwart, B., 21.12–52
Satellite photograph gridding
  De Dycker, E., 21.5–93
Satellite photograph rectification
  Doolittle, R. C., 21.11–79
Satellite photograph transmission
  Clodman, J., 21.1–149
Satellite photographs
  Holdsworth, N., 21.9–48
Satellite photography
  American Oceanograph [Houston, Tex.], 21.10 788
  Booth, A. L. et al., 21.5–5
  Haupt, I., 21.2–18
  Johnson, R. P., 21.3–466
  Nazirov, M., 21.2–256
  Raizer, P. Ia., 21.2–24
  Temnikov, S. N., 21.12–81
Satellite photography of sea states
  Levanon, N., 21.8–825
Satellite photometric observation
  Rodionev, S. F. et al 21.2–25
Satellite pictures
  Walch, D. G., 21.5–604
Satellite programs
  TELCOM, Inc., 21.8–50
Satellite proton observations
  Heckman, H. H., 21.11 293
  Katz, L. et al., 21.2–351
  Savenko, I. A. et al., 21.8 294
Satellite radiation data
  Belov, P. N. et al., 21.1 102
  Bradshaw, N. L., 21.10–5
  Greaves, J. R. et al., 21.2 764
  Kondrat'ev, K. Ia., 21.3–6
  LaViolette, P. E. et al 21.9–731
  Tolstikov, E. E., 21.3–45
Satellite radiation data analysis
  Anderson, G. P. et al. 21.6–207
  Basharinov, A. E., 21.12 69
  Bettinger, R. T. et al. 21.2–62
  Boldyrev, V. G., 21.2–20
  Breene, R. G., Jr., 21.1–41
  Bugaeva, I. V. et al., 21.3–544

Burn, J. W. et al., 21.10–27
Fritz, S., 21.6–451
Hauth, F. F. et al., 21.8–365
House, F. B., 21.8–46
King, J. I. F., 21.6–67
Koprova, L. I., 21.7–581
LaViolette, P. E. et al., 21.2–211
Lethbridge, M., 21.12–77
Ludwig, C. B. et al., 21.5–267
McKee, T. B. et al., 21.4–253
Malkevich, M. S. et al., 21.1–153; 21.4–166
Obukhov, A. M. et al., 21.8–346
Pallmann, A. J., 21.4–230
Panofsky, H. A. et al., 21.2–23
Pouquet, J., 21.1–155
Sekihara, K., 21.5–332
Smith, W. L., 21.2–220
Warnecke, G. et al., 21.8–51

Satellite radiation data synoptic analysis
Siebers, J. O., 21.8–49

Satellite radiation dates
Dmitriev, A. A., 21.3–574

Satellite radiation equipment
Vetlov, I. P., 21.11–83

Satellite radiation instruments
Bandeen, W. R., 21.6–65
Beskin, V. A., 21.11–5R
Savenko, I. A. et al., 21.3–163

Satellite radiation measurements
Albert, E. G., 21.3–145
Hinteregger, H. E. et al., 21.7–159
Otterman, J., 21.12–80
Raschke, E. et al., 21.10–265
Smith, W. L., 21.4–132
Van Der Ham, C. J., 21.10–266
Vonder Haar, T. H., 21.8–236
Vukovich, F. M., 21.5–493

Satellite radiation studies
Winston, J. S., 21.8–52
Wisconsin Univ., Madison. Dept. of Meteorology, 21.8–53

Satellite radio astronomy
Stone, R. G., 21.10–580

Satellite radio noise measurements
Bent, R. B., 21.10–255
Smith, E. J., 21.2–386

Satellite radio observations
Kondrat'ev, K. Ia., 21.3–565

Satellite radio scintillation
Preddey, G. F., 21.3–160

Satellite radio signal reception
Carey, R. B. et al., 21.9–47

Satellite radio transmission
Aarons, J., 21.8–44
Gierhart, G. D. et al., 21.5–95

Satellite radio transmission propagation
Hartman, G., 21.1–313
Hopfield, H. S., 21.12–71
Jordan, K. L., Jr., 21.12–73
Klein, P. I., 21.12–75

Satellite radio transmission scintillation
Hartmann, G. K., 21.9–168
Houminer, Z., 21.12–72
Liszka, L., 21.10–63
Singleton, G. D., 21.11–210
Titheridge, J. E., 21.7–205
Whitney, H. E., 21.10–199

Satellite radio waves
Kazantsev, A. N. et al., 21.3–154

Satellite radioactive fallout measurements
Shafer, Iu. G. et al., 21.4–83

Satellite research
U. S. National Environmental Satellite Center, 21.1–157
Wisconsin Univ., Madison. Dept. of Meteorology, 21.8–53

Satellite research, U.S.A., bibliography
U. S. National Environmental Satellite Center, 21.9–146R, –147R

Satellite research and development
Johnson, D. S., 21.8–47

Satellite scintillations
Getmantsev, G. G. et al., 21.6–66

Satellite sea surface slope estimates
Levanon, N., 21.8–825

Satellite snow cover photographs
Kaminski, H., 21.12–74
McClain, E. P. et al., 21.5–98
Popham, R. W., 21.3–668

Satellite snow surveillance
Barnes, J. C. et al., 21.3–34

Satellite solar observations
Widing, K. G., 21.2–457
Winter, T. C., Jr., 21.2–458

Satellite solar proton observations
Cashion, R. E. et al., 21.1–148
Kinsey, J. H. et al., 21.2–147

Satellite solar radiation observations
Rigaud, P., 21.4–145

Satellite solar spectral observations
Heath, D. F., 21.5–446

Satellite solar wind measurements
Burlaga, L. F. et al., 21.7–365
Egidi, A. et al., 21.2–135
Ogilvie, K. W. et al., 21.9–226
Whipple, E. C., Jr., 21.4–154

Satellite solar X-ray emission measurements
Arnoldy, R. L. et al., 21.2–132
Culhane, J. L. et al., 21.8–263
Drake, J. F., Sr. et al., 21.8–267
Frost, K. J., 21.8–271

  Michard, R. et al., 21.2–148
  Simon, G., 21.3–531
Satellite spectroscopy
  Ludwig, C. B. et al., 21.5–267
Satellite spin decay
  Grigorevskiĭ, V. M. et al., 21.3–152
Satellite storm predictions
  Vasil'ev, K. P., 21.3–168
Satellite surveillance systems
  Allen, R. S., 21.3–369
Satellite symposia
  Borisenkov, E. P. et al., 21.9–46
  Nature [London], 21.3–158
Satellite systems
  Hill, H. W. et al., 21.8–45
  Radio Corporation of America, 21.9–50
Satellite television transmission
  Raizer, P. Ia., 21.2–24
Satellite temperature estimates
  Bugaeva, I. V. et al., 21.3–544
  Fritz, S., 21.6–451
  House, F. B. et al., 21.4–170
  Malkevich, M. S. et al., 21.4–166
  Smith, W. L., 21.4–132
Satellite upper atmosphere composition measurements
  Lockey, G. W. A., 21.4–54
Satellite uses
  American Astronautical Society, 21.7–738
  National Research Council, Wash., D. C., Div. of Engineering, 21.3–156
  Pardoe, G. K. C., 21.3–157
  Vinogradov, B. V. et al., 21.1–159
Satellite uses in agriculture
  National Research Council, Wash., D. C. Div. of Engineering, 21.7–44
Satellite uses in astronomy
  Goldberg, L., 21.2–394
Satellite uses in Earth sciences
  Laing, R. W., 21.12–76
  Otterman, J., 21.12–80
Satellite uses in forestry
  National Research Council, Wash., D. C. Div. of Engineering, 21.7–45
Satellite uses in geodesy
  Raizer, P. Ia., 21.2–24
Satellite uses in geography
  Raizer, P. Ia., 21.2–24
Satellite uses in hydrology
  Bock, P., 21.3–147
  Ramey, E. H., 21.12–654
Satellite uses in meteorology
  Aarons, J., 21.8–44
  Agalakov, V. S., 21.1–146
  Masterson, J. E., 21.12–79
  Spohn, C. A., 21.2–4
Satellite uses in navigation
  Mullen, J. P., 21.10–65
Satellite uses in oceanography
  National Research Council, Wash., D. C. Div. of Engineering, 21.7–45
  Soules, S. D., 21.12–782
Satellite uses in tropical meteorology
  Anderson, R. K. et al., 21.7–43
Satellite uses in weather forecasting
  Alexander, R. M., 21.2–20
Satellite vertical motion measurements
  Bradshaw, N. L., 21.10–59
Satellite weather analysis
  Anderson, R. K. et al., 21.5–91
Satellite weather forecasting
  Agalakov, V. S., 21.146
  Anderson, R. K. et al., 21.5–91
  Clark, J. R. et al., 21.5–92
  Davis, W. O., 21.3–269
  Freeman, J. C., 21.12–130
  Frey, I. R., 21.3–270
  Kerr-Smith, M. W., 21.10–62
  Oliver, V. J., 21.8–48
  Palmer, H. V. R., Jr., 21.9–80
  U. S. National Enviro mental Satellite Cente 21.6–70
  Viezee, W. et al., 21.2–3
Satellite whistlers observations
  Gurnett, D. A., 21.11–54
Satellite wind estimates
  Levanon, N., 21.8–825
Satelliteborne ionosounders
  Hirao, K., 21.6–120
Satelliteborne mass spectrometers
  Hoffman, J. H., 21.10–61
Satelliteborne radio interferometers
  Klein, P. I., 21.12–75
Satelliteborne radiometers
  Fujita, T. T., 21.12–70
Satellites
  NCAR Quarterly [Boulder, Colo.], 21.9–198
Saturn's atmosphere
  Hall, J. S. et al., 21.7–75
  Streett, W. B., 21.6–712
Saturn's atmosphere models
  Gulkis, S. et al., 21.5–69
Saturn's atmospheric composition
  McElroy, M. B., 21.5–71
  Owen, T., 21.11–591
Saturn's radiation
  Aumann, H. H. et al. 21.10–624
Saturn's radio emission
  Gulkis, S. et al., 21.5–694
Saturn's rings
  Franklin, F. A., 21.12–61
  Jeffreys, H., 21.12–611
Saturn's spectra
  Owen, T., 21.11–591
  Teifel, V. G., 21.7–763
Saturn's temperature
  Aumann, H. H. et al., 21.10–624
Scanner photograms
  Pochop, L. O. et al., 21.10–379
Scanning radiometer data
  Albert, E. G., 21.3–145
Scatter measurement techniques
  Tuma, J., 21.12–115

Scatter propagation
North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development, 21.1–31
Wheelon, A. D., 21.8–705
Scattered light recorders
Fimpel, H. et al., 21.1–94
Scattering by aerosols
Ahlquist, N. et al., 21.11–491
Foitzik, L., 21.7–704; 21.10–140
Osherovich, A. L., 21.10–35R
Ramanathan, K. R. et al., 21.5–451
Toropova, T. P., 21.5–452
Tuma, J., 21.12–115
Unz, F., 21.5–299
Scattering by cloud droplets
Strand, R. F., 21.6–377
Scattering by particles
Toropova, T. P. et al., 21.8–575
Scattering by water droplets
Kasatkina, O. I., 21.11–13R
Scattering calculations
Danzer, K. H. et al., 21.4–136
Scattering function
Clancy, B. E., 21.6–374
Toropova, T. P., 21.6–675; 21.8–575
Scattering in seawater
Stone, J. et al., 21.9–686
Scattering indicatrix
Sobolev, V. V., 21.4–148
Timofeeva, V. A., 21.4–373
Toropova, T. P., 21.5–452
Scattering of laser beams
Boudreau, R. D., 21.12–33
Scattering of light
Ivanov, A. P. et al., 21.9–416
Kerker, M., 21.8–572
Scattering of light through clouds
Hansen, J. E., 21.7–565
Scattering of polarized light
Rvachev, V. P. et al., 21.2–344
Scattering of radiation
Siewert, C. E., 21.7–340
Scavenging by precipitation
Sood, S. K., 21.12–536
Scavenging by rain
Georgii, H. W., 21.11–393
Scientific instruments
Science [Wash., D. C.], 21.9–103R
Scientific research, Italy
Italy. Istituto di Fisica dell'Atmosfera, Rome, 21.11–43R
Scientific Research, USAF, bibliography
U. S. Library of Congress, 21.9–145R
Scientific research and development
Needham, J., 21.10–10
Scientific research bibliographies
U. S. Air Force, Cambridge Research Labs., Bedford, Mass., 21.1–49
Scintillation intensities
Deitz, P. H., 21.6–251
Scintillation variations
Preddey, G. F., 21.3–159
Scripps, annual report 1967
California. Univ. Scripps Institution of Oceanography, La Jolla, 21.9–112R
Scripps, annual report 1968
California. Univ. Scripps Institution of Oceanography, La Jolla, 21.9–113R
Sea–air–Earth relationships
Turekian, K. K., 21.4–747
Sea–air exchange
Bruevich, S. V. et al., 21.4–748
Sea–air heat exchange
Bortkovskiĭ, R. S. et al., 21.3–490
Zillman, J. W., 21.12–353
Sea–air interaction
BOMEX, 21.2–772
Benton, G. S., 21.2–769
Bryan, K., 21.6–833
Coantic, M., 21.2–770
Franceschini, G. A., 21.2–773
Kuettner, J. P., 21.3–20
Kurtz, E., 21.2–774
Manabe, S., 21.6–309, –310
Mollo-Christensen, E., 21.8–6
Namias, J., 21.2–775
Nikiforov, E. G. et al., 21.4–707
Raghavan, K., 21.9–51
Stefansson, U. et al., 21.3–29
Sea–air investigations
U. S. Environmental Science Services Administration, 21.8–10
Sea–air iodine exchange
Pasławska, S. et al., 21.7–133
Sea–air relationships
Matsumoto, S. et al., 21.6–590
Smagorinsky, J., 21.3–275
Sea–air research
Cook, A. K., 21.5–5
Sea–atmosphere exchange
Shishkov, Iu. A., 21.2–215
Sea–atmosphere heat exchange
Walmsley, J. L., 21.10–260
Sea boundaries
Wilcove, R., 21.2–660
Sea breeze effects
Boer, J. H. et al., 21.9–204
Sea breeze fronts
Hsu, S. A., 21.7–490
Sea conservation
Marx, W., 21.3–759
Sea–Earth salt exchange
Tsyganenko, A. F., 21.4–234
Sea fog forecasting
Terziev, F. S., 21.10–113
Sea fog formation
Terziev, F. S., 21.10–113
Sea ice–atmosphere energy exchange
Brown, J. H., 21.6–264

Sea ice composition
  Shesteperov, I. A., 21.4–782
Sea ice conditions
  Canada. Meteorological Branch, 21.2–627
  Kunnel, I., 21.1–765
  Walmsley, J. L., 21.10–260
  Zwart, B., 21.12–52
Sea ice distribution
  Vinje, T. E., 21.12–732
Sea ice elasticity
  Holdsworth, G., 21.5–780
Sea ice forecasting
  Johnson, J. D., 21.4–613
  Nikiforov, P. P., 21.2–637
Sea ice formation
  Baranov, G. I. et al., 21.4–620
  Lake, R. A. et al., 21.5–781
  Shesteperov, I. A., 21.4–782
Sea ice formation conditions
  Kühnel, I., 21.9–669
  Matheson, K. M., 21.12–21
Sea ice mechanics
  Prebble, M. M., 21.2–639
Sea ice melting
  Kunnel, I., 21.1–765
  Langleben, M. P., 21.5–445
  Untersteiner, N., 21.7–826
Sea ice observations
  Vinje, T. E., 21.12–732
Sea ice properties
  Addison, J. R., 21.4–619
  Baranov, G. I., 21.4–620
  Untersteiner, N., 21.7–826
Sea ice regime
  Nikiforov, P. P., 21.2–637
Sea ice–seawater effects
  Beliakov, L. N., 21.4–781
Sea ice surveys
  Polar Record [Cambridge, Eng.], 21.2–635
Sea ice thermal properties
  Ono, N., 21.2–638
Sea ice thermodynamic models
  Maykut, G. A. et al., 21.5–782
Sea ice thickness measurements
  Finkel'shteĭn, M. I., 21.12–730
Sea ice variations
  Khrol, V. P., 21.9–668
  Meshcherskaia, A. V. et al., 21.2–636
  Uralov, N. S., 21.9–670
Sea level calculations
  Glukhovskiĭ, B. Kh. et al., 21.4–656
Sea level data
  Danske, H., 21.2–519
  Finland. Havforskningsinstitutet, 21.10–792
Sea level fluctuations
  Uziel, J., 21.4–657
Sea level forecasting
  Geller, S. Iu., 21.9–680
  Palmieri, S. et al., 21.7–102
  Smirnova, K. I., 21.1–252
Sea level instruments
  Bondarenko, A. L., 21.4–647
Sea level variations
  Akademiia Nauk SSSR, 21.9–678
  Geller, S. Iu., 21.9–680
Sea pressure measurements
  Riel, G. K., 21.6–836
Sea salt nuclei
  Blanchard, D. C., 21.6–547
  Twomey, S., 21.10–366
Sea salt particles
  Pueschel, R. F. et al., 21.6–182
Sea slicks
  Soules, S. D., 21.12–782
Sea smoke
  Neumann, C., 21.1–576
Sea state measurements
  Nordberg, W. et al., 21.2–385
Sea states
  Srivastava, P. S. et al., 21.10–832
Sea surface
  Hasselmann, K., 21.12–4R
Sea surface advection
  Shishkov, Iu. A., 21.2–215
Sea surface evaporation
  Bruevich, S. V. et al., 21.4–748
Sea surface heat exchange
  Shelkovnikov, N. K. et al., 21.4–183
Sea surface radiation
  Franceschini, G. A., 21.3
    496
Sea surface roughness measurements
  Saenger, R. A., 21.2–697
Sea surface temperature
  Colacino, M. et al., 21.10
    316
  International Council fo
    the Exploration of th
    Sea, 21.11–61R
  Romer, J., 21.11–108R
Sea surface temperature anomalies
  Mazeika, P. A., 21.1–42
  Moriyasu, S., 21.4–745
  Namias, J., 21.5–492
  Shishkov, Iu. A., 21.2–21
Sea surface temperature calculations
  Kamenkovich, V. M., 21.2
    209
Sea surface temperature charts
  Colacino, M., 21.8–850
  Crawford, A. B., 21.4–74
Sea surface temperature–circulation effects
  Murray, R. et al., 21.5–7
  Namias, J., 21.7–110
Sea surface temperature data
  LaViolette, P. E. et al
    21.2–667
Sea surface temperature data analysis
  Krylov, S. I., 21.6–849
Sea surface temperature distribution
  Greaves, J. R. et al., 21.2
    764
  Namias, J., 21.5–492
  Noble, V. E. et al., 21.10
    824
Sea surface temperature estimate
  Greaves, J. R. et al., 21.2
    764
  LaViolette, P. E. et al.
    21.9–731
Sea surface temperature estimation
  Buettner, K. J. K. et al.
    21.5–456

LaViolette, P. E. et al., 21.2–211

Sea surface temperature mapping
Tilden, C. E. et al., 21.5–27

Sea surface temperature measurement techniques
Crawford, A. B., 21.12–26

Sea surface temperature measurements
Colacino, M. et al., 21.7–848; 21.8–850
Huebner, G. L., 21.2–762
Ogura, Y. et al., 21.6–847
Satoh, Y., 21.11–774

Sea surface temperature variations
Moriyasu, S., 21.7–849
Namias, J., 21.5–492

Sea surface temperatures
Dahme, A., 21.2–663
Doberitz, R., 21.11–329
Krylov, S. I., 21.6–849
Morton, W. T., 21.4–272
Nazirov, M., 21.3–572
Rabinovich, Iu. I. et al., 21.4–181
Romer, J., 21.6–850
Strokina, L. A. et al., 21.4–668
Vukovich, F. M., 21.5–493
Wilkerson, J. C. et al., 21.4–184
Wyrtki, K., 21.12–773

Sea temperature anomalies
Ulanov, Kh. K., 21.4–746

Sea temperature–cyclogenesis relationships
Namias, J., 21.7–110

Sea temperature effects on hurricane development
Carlson, T. N., 21.12–384

Sea temperature instruments
Crawford, A. B., 21.12–26
Eliasberg, A. Ia., 21.5–789
Voskanian, A. G., 21.4–654

Sea temperature regime
Al'tman, E. N. et al., 21.2–706

Sea thermal regime
Malevskiĭ-Malevich, S. P., 21.3–571

Sea thermodynamics
Maykut, G. A. et al., 21.5–782

Sea wave HF
Koniaev, K. V. et al., 21.10–833

Sea waves
Koniaev, K. V. et al., 21.10–833

Seasonal effects on mortality
Katayma, K., 21.6–655
Momiyama, M., 21.7–430

Seasonal floods
Kudyshkin, V. A. et al., 21.9–344

Seasonal forecasting
Kryndin, A. N., 21.9–407
Pagava, S. T., 21.9–249
Sestoft, I., 21.6–141
Wörner, H., 21.1–248

Seasonal forecasting, Japan
Asakura, T., 21.10–70R

Seasonal ionospheric variations
Gregory, J. B. et al., 21.1–670; 21.2–70

Seasonal ocean current variations
Zore-Armanda, M., 21.1–739

Seasonal oceanographic variations
Cano Lucaya, N. et al., 21.2–752
Hoshiai, T., 21.12–775
Rochford, D. J., 21.1–738

Seasonal ozone variations
Pittock, A. B., 21.1–327

Seasonal precipitation at sea
Jacobs, W. C., 21.2–259

Seasonal precipitation variations
Hosokawa, K., 21.9–317

Seasonal radioactive fallout intensity variations
Taylor, C. B., 21.3–407

Seasonal radioactivity variations
Mattsson, R., 21.12–328
Rangarajan, C., 21.12–333

Seasonal salinity variations
Rochford, D. J., 21.2–768
Shonting, D. H., 21.11–769

Seasonal sea ice variations
Kirillov, A. A. et al., 21.2–631

Seasonal temperature forecasting
Ur'eva, B. R., 21.3–285

Seasonal thermocline
Cairns, J. L., 21.7–460

Seasonal upper air temperature variations
Theon, J. S. et al., 21.6–456

Seasons–mortality effects
Momiyama, M. et al., 21.9–388, –389

Seawater aeration
Juliano, D. W., 21.9–684

Seawater alkalinity
Akiyama, T. et al., 21.3–789

Seawater analysis
Allen, H. E., 21.11–763
Berge, H., 21.12–748
Billings, G. K. et al., 21.4–680
Topping, G., 21.9–694
Williams, W. G., 21.2–714

Seawater chemical content
Bhat, S. G., 21.3–790

Seawater chemicals
Shingley, C. M., 21.3–788

Seawater chemistry
Schwarcz, H. P. et al., 21.4–687
Sorokin, Iu. I., 21.11–760

Seawater circulation
Bibik, V. A., 21.2–677
Novitskiĭ, V. P., 21.2–742

Seawater composition
Billings, G. K. et al., 21.4–680
Ishibashi, M., 21.12–7R
Kester, D. R. et al., 21.9–699
Knull, J. R., 21.1–733
Millero, F. J., 21.2–716
Rotschi, H. et al., 21.10–820
Sugiura, Y., 21.10–803
Warner, T. B., 21.3–787

Seawater composition measurements
Corwin, J. F., 21.4–689
Ehrhardt, M., 21.4–690

Seawater contaminants
  Swinnerton, J. W. et al., 21.5–231
Seawater density distribution
  Linekin, P. S., 21.2–750
  Siedler, G., 21.10–799
Seawater density profiles
  Siedler, G., 21.10–799
Seawater desalinization
  Sherwood, T. K. et al., 21.2–712
  U. S. Office of Saline Water, 21.2–713
  Zeitoun, M. A. et al., 21.2–715
Seawater foam layer
  Droppleman, J. D., 21.10–533
Seawater–fresh water intrusion
  Stringfield, V. T. et al., 21.10–733
Seawater intrusion
  Blair, A. H., 21.2–560
Seawater intrusion in fresh water
  Schmorak, S. et al., 21.10–734
Seawater mixing
  Carter, H. H., 21.11–766
  Falkenmark, M. et al., 21.6–796
  Novitskiĭ, V. P., 21.2–742
Seawater nitrate
  Anderson, G. C., 21.3–784
Seawater nuclear chemistry
  Swallow, A. J., 21.3–791
Seawater optics
  Friedman, D., 21.7–840
  Morrison, R. E., 21.5–793
Seawater oxygen measurements
  Broenkow, W. W. et al., 21.2–722
Seawater physical properties
  Yaeke, L. A. et al., 21.3–782
Seawater pollution
  Nelson, G., 21.4–671
  Ozmidov, R. V., 21.9–708
  Sibthorp, M. M., 21.4–670
  Singer, S. F., 21.4–404
Seawater pollution control
  Sibthorp, M. M., 21.4–670
Seawater pressure
  Fedorov, I. I., 21.11–765
Seawater samplers
  Culberson, C. et al., 21.10–796
Seawater thermal properties
  McAlister, E. D., 21.3–783
Secondary flow
  Brown, R. A., 21.11–167
Secular geomagnetic anomalies
  Yukutake, T. et al., 21.1–680
Secular geomagnetic variations
  James, R. W., 21.5–730
  Malin, S. R. C., 21.5–729
Secular precipitation variations
  Kikuchi, R., 21.8–401
Secular radiation variations
  Milankovitch, M., 21.4–131
Secular rainfall variations
  Senior, M. R., 21.5–622
  Suzuki, E., 21.9–315
Secular river level variations
  Vas'kovskiĭ, M. G., 21.2–587
Secular sea ice variations
  Nazarov, V. S., 21.6–821
Secular sea level variations
  Emiliani, C., 21.9–679
  Holmes, J. W., 21.9–681
Secular sea temperature variations
  Devereux, I. et al., 21.10–827
  Ruddiman, W. F., 21.12–776
Secular sea temperatures
  Shpalkher, A. O. et al., 21.2–214
  Van Donk, J. et al., 21.4–744
Secular temperature trends
  Spirina, L. P., 21.2–187
Secular temperature variations
  Barry, R. G., 21.3–558
  Budyko, M. I., 21.10–261
  Chiriac, V. et al., 21.3–5
  Fukui, E., 21.8–318
  Gedeonov, A. D., 21.9–30
  Hurst, G. W., 21.2–185
  Konček, M., 21.7–437
  Lawrence, E. N., 21.1
  315
  MacDonald, G. J., 21.3–5
  Mercer, J. H., 21.9–377
Secular tide trends
  Liese, R., 21.4–761
Secular wind variations
  Parshina, N. K., 21.3–6
Sediment transport unde wave action
  Iwagaki, Y., 21.12–791
  Nazaretskiĭ, L. N., 21.1
  783
Sedimentation
  Johnson, A. I. et a
  21.10–433
Seiches, Caspian Sea
  Polukarov, G. V., 21.1
  19R
Semiannual air density variations
  King-Hele, D. G. et a
  21.1–272
Semiannual density variations
  Cook, G. E., 21.2–50
Semiannual magnetic variations
  Wagner, C. U., 21.5–736
Semiannual upper air win variations
  Miniushina, L. S., 21.5
  520
Semiannual upper atmosphere densities
  Cook, G. E., 21.12–204
Semiannual upper atmosphere density variations
  Schaefer, D. et al., 21.9
  116
Semiarid zone bioclimatology
  Tromp, S. W., 21.2–310
Semidiurnal atmospheric oscillations
  Asnani, G. C., 21.2–511
  Stokka, E. B., 21.1–312
Semidiurnal pressure variation
  Chapman, S., 21.1–476

Semidiurnal tide variations
Kraav, V. K., 21.3–797
Sensible heat flux
Viswanadham, Y. et al., 21.7–246
September weather forecasting
Zakharova, N. M., 21.2–34
Severe floods
Dhar, O. N., 21.11–430
Severe local storm analysis
Alberty, R. L., 21.11–262
Haglund, G. T., 21.3–444
Sasaki, Y., 21.9–204
Severe local storm development
Lavoie, R. L., 21.6–323
Severe local storm forecasting
Cressman, G. P., 21.7–283
Sasaki, Y., 21.9–204
Severe rainstorms
Chen, T. Y., 21.1–612
Severe storm warnings
Tennessee. Office of Civil Defense, 21.9–107
Severe thunderstorm forecasting
David, C. L., 21.9–94
Severe weather events
Bowman, H. S., 21.4–386
Severe winters
Green, N., 21.7–443
Zwart, B., 21.12–52
Sewage discharge into rivers
Drachev, S. M. et al., 21.4–591
Sferics
Shabalin, V. D., 21.9–460
Sferics detectors
Kohl, D. A., 21.6–102
Sferics equipment
Brown, R. L., 21.7–57
Loch, B. F., 21.7–723
Makhotkin, L. G. et al., 21.9–74
Sferics frequency distribution
Makhotkin, L. G. et al., 21.9–458
Sferics from lightning
Hill, R. D., 21.9–455; 21.10–541
Kimpara, A., 21.9–456
Mikhaĭlova, G. A., 21.8–630
Oetzel, G. N. et al., 21.7–724
Pierce, E. T., 21.7–725
Takagi, M., 21.9–461
Vasileva, S., 21.2–387
Sferics from thunderstorms
Bent, R. B., 21.10–255
Bossolasco, M., 21.7–720
Hagn, G. H. et al., 21.9–454
Vasileva, S., 21.2–387
Sferics observation techniques
Loch, B. F., 21.7–723
Sferics on radar
Andrews, G. F., 21.10–29
Sferics propagation
Shabalin, V. D., 21.9–460
Wait, J. R., 21.2–389
Sferics recorders
Bossolasco, M., 21.7–720
Sferics research
Pierce, E. T., 21.7–725
Sferics source location
Kohl, D. A., 21.6–102
Sferics thunderstorm location
Makhotkin, L. G. et al., 21.8–29 to –31
Sferics wave form analysis
Taylor, W. L., 21.8–636
Sferics wave form recorders
Chiplonkar, M. W. et al., 21.2–68
Sferics wave forms
Wait, J. R., 21.2–389
Shade effects on tea production
Shaxson, T. F., 21.11–283
Shallow water wave forecasting
Iwagaki, Y., 21.12–790
Kakinuma, T., 21.12–781
Shallow water waves
Iwagaki, Y., 21.12–791
Shear flow models
Cermak, J. E., 21.12–355
Shear flow turbulence studies
Scotti, R. S. et al., 21.10–233
Shear layer studies
Fichtl, G. H., 21.8–215
Shear stress
Bradley, E. F., 21.1–519
Bradshaw, P., 21.7–238
Panofsky, H. A. et al., 21.1–352
Peterson, E. W., 21.1–521
Swinbank, W. C., 21.10–338
Taylor, P. A., 21.1–524
Shear stress meters
Bradley, E. F., 21.1–184
Shelter belt effects
Adrianov, S. N., 21.3–623
Kukularov, P. et al., 21.3–624
Ship motion studies
Tasia, F., 21.2–779
Ship motion–wave effects
Sharma, S. D., 21.4–405
Wehausen, J. V., 21.4–406
Ship routing
Allegri, G., 21.10–2R
Land, P. B. et al., 21.10–834
Ship routing methods
Abuziarov, Z. K., 21.1–258
Braddock, R. D., 21.6–1
Shipping disasters
DeAngelis, R., 21.2–287
Rohlfs, A. J., 21.7–289
Ships' hold microclimatology
Holler, E., 21.8–528
Shoaling waves
Iwagaki, Y., 21.12–784, –785, –787
Shock tube studies
Smith, J. L., 21.4–296
Shock wave heating
Kuperus, M., 21.11–638
Shock wave in solar atmosphere
Kai, K., 21.8–724
Shock wave phenomena
Barnwell, R. W., 21.3–698
Shock waves in chromosphere
Mackle, R., 21.9–546
Shock waves in solar atmosphere
Zaĭtsev, V. V., 21.2–429
Shore processes
Gubkin, N. M., 21.2–800

- **Short period oscillations**
  - Kusano, K. et al., 21.6–471
- **Short radio wave field strength**
  - Kazantsev, A. N. et al., 21.3–154
- **Short range forecasting**
  - Moscow. Tsentral'nyĭ Inst. Prognozov, 21.8–80
- **Short wave radiation**
  - Ivanov-Kholodnyĭ, G. S. et al., 21.9–171
- **Short wave radiation absorption**
  - Lettau, H. et al., 21.5–450
- **Short wave radiation balance**
  - Lingova, St., 21.2–111
- **Short wave radiation calculations**
  - Avaste, O. A., 21.1–454
  - Dmitrieva-Arrago, L. R., 21.12–406
  - Shifrin, K. S., 21.11–25R
- **Short wave radiation flux**
  - Avaste, O. A., 21.1–454
  - Mullamaa, Iu. A. R., 21.12–419
- **Short wave radiation–ionosphere effects**
  - Ivanov-Kholodnyĭ, G. S. et al., 21.9–171
- **Short wave radiation observation technique**
  - German, A. I., 21.9–31R
- **Short wave radiation scattering**
  - Lettau, H. et al., 21.5–450
- **Short wave radio propagation**
  - Hasegawa, S., 21.2–71
  - Kashprovskiĭ, V. E. et al., 21.7–737
  - Kuperov, L. P., 21.4–418
- **Shower conditions**
  - Dement'eva, N. V., 21.2–101
  - Kawecki, A., 21.9–318
- **Shower forecasting**
  - Bel'skaia, N. N., 21.12–153
  - Imada, M. et al., 21.7–96
- **Shower rainfall studies**
  - Shaw, R. W., 21.8–28
- **Showers**
  - Gel'mgol'ts, N. F., 21.12–538
- **Siberian high**
  - Maksimov, I. V. et al., 21.10–242
- **Sigma-t studies**
  - Rochford, D. J., 21.2–732
- **Silage production**
  - Derbyshire, J. C. et al., 21.8–682
- **Silicate in seawater**
  - Bannuh, M. W. et al., 21.4–685
- **Silting**
  - Kupche, L. V., 21.2–593
- **Silver iodide cloud seeding**
  - Dennis, A. S. et al., 21.8–124
  - Simpson, J. et al., 21.5–600
  - Volkova, S. S. et al., 21.6–160
  - Woodley, W. L., 21.8–131
- **Silver iodide effectiveness**
  - Gravenhorst, G., 21.12–192
  - Layton, R. G. et al., 21.7–122
- **Silver iodide generators**
  - Anyz, F., 21.12–187
  - Walser, J. T., 21.11–142
- **Silver iodide ice nucleation**
  - Layton, R. G. et al., 21.7–122
- **Silver iodide nucleating processes**
  - Layton, R. G., 21.1–269
- **Silver iodide nucleation**
  - Alkezweeny, A. J., 21.6–554
  - Gravenhorst, G., 21.12–192
  - Levkov, L., 21.11–146
- **Silver iodide nuclei**
  - Knight, C. A., 21.6–109
- **Silver iodide plume distribution**
  - Pham, V. D., 21.10–129
- **Silver iodide seeding**
  - Dessens, H., 21.5–204
  - Dessens, J., 21.7–117
  - Robertson, C. E., 21.5–208
- **Silver iodide smoke generators**
  - Dessens, H., 21.5–204
- **Similarity concepts**
  - Deardorff, J. W., 21.1–359
  - Dutton, J. A. et al., 21.10–227
- **Similarity theory**
  - Arya, S. P. S. et al., 21.1–314
  - Blackadar, A. K., 21.7–49
  - Chaudhry, F. H. et al., 21.9–258
  - Elderkin, C. E., 21.1–48
  - Klug, W., 21.1–368
  - Panchev, S., 21.8–219
- **Simulated boundary laye**
  - Counihan, J., 21.1–483
- **Simulated physical chemical processes**
  - Groth, W., 21.5–105
- **Simulated thermals**
  - Wilkins, E. M. et al., 21.3–633
- **Sinelshikov, V. V.**
  - Petrosiants, M. A., 21.1–73
- **Six level forecasting models**
  - Jarvis, E. C. et al., 21.4–28
- **Skew-T analysis**
  - Kuehnast, I., 21.12–30
- **Skew-T, log P diagram**
  - Johnson, N. L., 21.8–21
  - U. S. Air Weather Service, 21.7–91
- **Skin color–sunlight relationships**
  - Blum, H. F., 21.4–408
- **Sky brightness calculation**
  - Rozenberg, G. V. et al., 21.7–331
- **Sky brightness measurements**
  - Dandekar, B. S., 21.8–24
  - Foitzik, L. et al., 21.9–21
  - Lukae, J., 21.10–276
- **Sky brightness temperatures**
  - Price, R. M., 21.5–44
- **Sky brightness variations**
  - Lukae, J., 21.10–276
- **Sky cover measurements**
  - Pochop, L. O. et al., 21.10–379
- **Sky emission spectrum analysis**
  - Ashcheulov, S. V., 21.2–126

Sky light color
Foitzik, L. et al., 21.9–217
Sky light polarization
Können, G. P., 21.12–581
Unz, F., 21.5–299
Sky light polarization measurements
Dietze, G. et al., 21.2–348
Sky radiation
Foitzik, L., 21.12–423
Sky radiometers
Pardy, D., 21.2–29
Slant visibility calculation
Ratsimor, M. Ia., 21.9–414
Slant visibility measurement techniques
Gol'berg, M. A., 21.12–116
Slicks
Krugler, F., 21.4–757
Slope climatology
Bergen, J. D., 21.4–227
Slope erosion
Foster, R. L. et al., 21.9–323
Slope micrometeorology
Mishchenko, Z. A., 21.7–314
Rouse, W. R. et al., 21.6–651
Slow neutrons
Sandie, W. G. et al., 21.7–344
Slush ice densities
Miloshevich, V. A., 21.6–823
Small scale atmospheric motions
Scoggins, J. R., 21.11–230
Small scale feature analysis
Dutton, J. A., 21.11–42
Small scale precipitation
Ostby, F. P. et al., 21.1–124
Small scale turbulent motion
Stewart, R. W., 21.11–240
Smog control
Maunder, W. J., 21.1–302
Smoke diffusion
Moore, D. J. et al., 21.5–273
Smoke dispersion
Vadot, L. et al., 21.6–490
Smoke plume behavior
Jarman, R. T. et al., 21.5–259
Slawson, P. R., 21.8–221
Smoke plume models
Hesek, F., 21.5–384
Smoke plume rise observations
Garger, E. K., 21.4–202
Slawson, P. R., 21.8–221
Smoke plume visibility
Jarman, R. T. et al., 21.5–259
Smoke plumes
Hanna, S. R. et al., 21.5–252
Smoke tracers
Marshall, J. C., 21.3–70
Snow accumulation
Aver'innov, V. G., 31.11–396
Benson, C. S., 21.8–438
Chikovskiĭ, S. S., 21.11–397
Kamalov, B. A., 21.11–399
Nazarova, I. V., 21.11–401
Rakhmanov, V. V., 21.10–399
Snow accumulation estimation
Borovikova, L. N., 21.9–14R
Snow accumulation measurements
Petrov, V. N., 21.5–633
Snow accumulation rate
Hanappe, F. et al., 21.8–442
Snow and ice
Rooney, J., 21.1–623
Snow and ice observations
Bilello, M. A., 21.1–625
Snow and ice regimes
Marcus, M. G., 21.1–629
Snow and ice research bibliographies
U. S. Cold Regions Research and Engineering Lab., 21.8–430
Snow avalanche depositions
Tsomaia, V. Sh., 21.1–634
Snow classification
Sommerfeld, R. A., 21.4–289; 21.11–404
Snow composition
Peterle, T. J., 21.8–384
Snow conference proceedings
Eastern Snow Conference, 26th, Portland, Maine, 1969, 21.10–398
Western Snow Conference, 37th, Salt Lake City, Utah, 1969, 21.10–402
Snow cover
Gardner, J., 21.8–441
Kotliakov, V. M., 21.4–608
Mikhel', V. M., 21.7–636
United Nations Educational, Scientific, and Cultural Organization, 21.12–545
Snow cover ablation
Rachner, M., 21.8–447
Snow cover characteristics
Ishihara, K., 21.8–444
Snow cover composition
Hanappe, F. et al., 21.8–442
Snow cover densities
Bilello, M. A., 21.9–13R
Flemming, G., 21.1–628
Snow cover depths
Lauscher, F., 21.4–293, –294; 21.11–400
Peczely, G., 21.9–329
Snow cover distribution
Deleur, M. S., 21.5–629
Marx, S., 21.3–109
Rakhmanov, V. V., 21.2–271
Snow cover duration
Loup, J., 21.7–631
Snow cover dynamics
Glazyrin, G. E., 21.9–35R
Snow cover effects on soil freezing
Rostokin, E. N., 21.2–206
Snow cover observation, Japan
Huzioka, T., 21.11–87R
Snow cover observations
Kojima, K. et al., 21.3–36
Snow cover properties
Benson, C. S., 21.10–400
Bossolasco, M. et al., 21.2–268
Dolov, M. A., 21.9–326
Huzioka, T. et al., 21.4–292

Keeler, C. M., 21.5–631; 21.7–627
Kovacs, A. et al., 21.9–328
Wagner, W. P., 21.7–634
Snow cover regime
Buchet, C., 21.1–626
Rachner, M., 21.11–402
Snow cover–soil temperature effects
Klapowa, M., 21.5–487
Snow cover strength
Kovacs, A. et al., 21.9–328
Snow cover stress
Dolov, M. A. et al., 21.9–327
Snow cover structure
Dolov, M. A., 21.9–326
Snow cover studies
Arai, T. et al., 21.8–437
Hegedus, M. et al., 21.8–443
Huzioka, T. et al., 21.2–269, –270
Kojima, K., 21.11–88R
Rachner, M., 21.11–402
Snow cover surveys
Berni, A. et al., 21.8–439
Dmitriev, A. V., 21.11–398
Rachner, M., 21.8–447
Snow cover temperature regime
Yen, Y. C. et al., 21.4–297
Snow cover water content
Rakhmanov, V. V., 21.10–399
Snow covers
Wakahama, G. et al., 21.9–342, –343
Snow crystal structure
Magano, C. et al., 21.2–267
Snow crystals
LaChapelle, E. R., 21.4–288
Snow data
Strommen, N. D., 21.1–631
Snow density
Benson, C. S., 21.8–438
Keeler, C. M., 21.5–631
Snow density instruments
Kane, H. S., 21.5–630
Snow density profiles
Kans, H. S., 21.5–630
Snow depth data
Lauscher, F., 21.2–293
Strommen, N. D., 21.1–631
Snow drift experiments
Theakston, F. H., 21.10–404
Snow drifts
Mikhel', V. M., 21.7–636
Snow dunes
Weller, G., 21.8–449
Snow effects
Rooney, J., 21.1–623
Snow engineering properties
Mellor, M., 21.1–630
Snow evaporation
Rylov, S. P., 21.4–260
Snow forecasting
Rothrock, H. J., 21.7–94
Spar, J., 21.5–175
Snow formation
Goto, T., 21.8–431
Militaru, F. et al., 21.6–614
Snow frequencies
Clarke, P. C., 21.8–432
Manley, G., 21.8–433
Snow hydrology
Farnes, P. E. et al., 21.10–401
Marcus, M. G., 21.1–629
Mathieu, B. et al., 21.8–467
Popham, R. W., 21.3–668
Snow instruments
Farnes, P. E. et al., 21.10–401
Snow interception by forests
Satterlund, D. R., 21.11–395
Snow line
Shcherbakova, E. M., 21.7–632
Snow mechanics
Smith, J. L., 21.4–296
Snow melting
Kuziemski, J., 21.5–480
Palmieri, S., 21.1–632
Riley, J. P. et al., 21.5–634
Snow melting on floods
Zeleny, V., 21.8–448
Snow metamorphosis
Sommerfeld, R. A., 21.11–404
Snow observation networks
Bilello, M. A., 21.1–625
Snow particle size distribution
Sekhon, R. S., 21.7–629
Snow permeability measurements
Kuroiwa, D., 21.3–212
Snow permeameters
Kuroiwa, D., 21.3–212
Snow properties
Yen, Y. C., 21.4–290
Snow sampling instruments
Brechtel, H. M., 21.6–801
Snow settling
Rey, L., 21.10–403
Snow stratification
Benson, C. S., 21.8–438
Snow stratigraphy
Wagner, W. P., 21.7–634
Snow strength
Perla, R., 21.5–632
Snow surface forms
Ivanov, V. B., 21.6–618
Snow survey data
Federal–State–Private Co
operative Snow Surveys
21.1–627; 21.8–440
Snow surveying methods
Federal–State–Private Co
operative Snow Surveys
21.8–440
Snow transport by wind
Agafonova, S. M., 21.2–27
Mikhel', V. M., 21.7–636
Snow water content
Sosedov, I. S. et al., 21.3
669
Snowfall, Japan
Sato, K., 21.10–93R
Snowfall, New England (1968–1969)
Lautzenheiser, R. E., 21.1
622
Snowfall data, Eastern U.S.A.
Lautzenheiser, R. E., 21.9
226R
Snowfall data, U.S.A.
Ludlum, D. M., 21.9–242
Snowfall intensities
Dyer, R. M., 21.6–616
Snowfall trends
Hurley, C. W., Jr., 21.7
436

Snowflakes size distribution
Ohtake, T., 21.11–392
Snowmelt control
Nause, R., 21.2–275
Snowmelt effects on floods
Kinosita, T. et al., 21.8–461
Snowmelt effects on streamflow
Ertel, H., 21.11–427
Snowmelt flood effects
McPherson, H. J. et al., 21.8–466
Snowmelt flood forecasting
Kinosita, T. et al., 21.8–461
Soczynska, U., 21.8–783
Snowmelt floods
Roche, M. et al., 21.8–468
Shvets, G. I., 21.7–803
Snowmelt forecasting
Palmieri, S., 21.1–632
Rubtsov, I. G., 21.8–464
Soczynska, U., 21.4–524
Snowmelt gages
Haupt, H. F., 21.10–414
Snowmelt inflow
Fomenko, Ia. A., 21.12–670
Snowmelt loss
Glazyrin, G. E., 21.9–35R
Snowmelt permeation
Wakahama, G. et al., 21.9–342, –343
Snowmelt rate
Fujino, K., 21.2–274
Snowmelt research
Riley, J. P. et al., 21.5–634
Snowmelt–river discharge effects
Semenova, Z. D., 21.7–642
Tamazian, A. A., 21.11–731
Snowmelt runoff
Arai, T., 21.8–458
Cherkasev, P. A. et al., 21.2–626
Kobayashi, D. et al., 21.9–341
Shcheglova, O. P., 21.4–621
Surmach, G. P. et al., 21.9–340
Zeleny, V., 21.8–448
Snowmelt runoff calculations
Kovzel', A. G., 21.8–462
Kuz'min, P. P., 21.8–463
Sokolov, A. A., 21.8–469
Snowmelt runoff forecasting
Eschner, A. R. et al., 21.10–413
Snowmelt runoff investigations
Arai, T. et al., 21.8–437
Snowmelt studies
Peczely, G., 21.5–646
Snowmelt–temperature relationships
Rubtsov, I. G., 21.5–635
Snowstorm, Boston, Mass., (Feb. 1969)
Pierce, C. H., 21.8–436
Snowstorm, Fort Huachuca, Ariz. (March 1969)
Devine, J. C., 21.8–435
Snowstorm regime
Johnson, F. G., 21.5–628
Snowstorms
Chuter, I. H., 21.8–434
Mikhel', V. M., 21.7–636
Snowstorms, Boston (1872–1969)
Ludlum, D. M., 21.1–624
Sodium chloride nuclei
Keng, E. Y. H., 21.12–243
Sodium in aerosols
Radke, L. F., 21.12–518
Sodium origin
Moffett, R. J., 21.7–132
Sodium release in upper atmosphere
Nakamura, J. et al., 21.8–194
Sodium twilight airglow
Gadsden, M., 21.8–577
Soil absorption capacities
Galushchenko, N. G., 21.12–555
Soil aeration
Galeva, V. et al., 21.9–563
Soil air composition
Wildung, R. E., 21.7–658
Soil analysis
Ford, H. W. et al., 21.4–395
Soil chemistry
Nogina, N. A., 21.7–457
Soil–corn effects
Vangelov, A., 21.9–360
Soil–crop yield relationships
Konstantinov, A. R. et al., 21.2–325
Sirotenko, V. G., 21.9–395
Soil density measurements
Alabushev, V. A. et al., 21.8–481
Soil ecology
Visser, S. A., 21.4–399
Soil erosion
Carson, M. A., 21.1–650
Morgan, M. A., 21.1–772
Shvebs, G. I., 21.10–396
Surmach, G. P. et al., 21.9–340
Soil erosion control
Mannering, J. V., 21.8–491
Soil erosion in tropics
Williams, M. A. J., 21.7–622
Soil evaporation
Rosenberg, N. J., 21.3–644
Semenov, O. E. et al., 21.4–261
Soil evaporimeters
Semenov, O. E. et al., 21.4–261
Soil fertility
Konstantinov, A. R. et al., 21.2–325
Soil formation
Porter, S. C., 21.5–17
Soil freezing
Bobov, N. G., 21.10–315
Outcalt, S. I., 21.7–458
Rostokin, E. N., 21.2–206
Scott, R. F., 21.7–459
Soil freezing depth measurement technique
Patric, J. H. et al., 21.6–76
Soil freezing effects
Nogina, N. A., 21.7–457
Sozonov, V. A. et al., 21.3–568
Soil freezing meters
Patric, J. H. et al., 21.6–76

Soil freezing studies
Soons, J. M., 21.12–462
Soil heat capacity
Goryshina, N. G., 21.6–461
Soil heat conductivity measurements
Schneider, T., 21.6–465
Soil hydrology
Stephenson, G. R. et al., 21.8–795
Wesseling, J., 21.3–738
Soil hygrometers
Okunishi, K., 21.1–188
Soil mechanics
Johnson, A. I. et al., 21.10–433
Philip, J. R., 21.8–495
Soil moisture
Carson, M. A., 21.1–650
Gorbunova, I. G., 21.6–630
Soil moisture–alfalfa effects
Tovey, R., 21.8–497
Soil moisture analysis
Davey, B. G. et al., 21.3–704
Soil moisture and crops
Apetroaci, St. et al., 21.3–291
Soil moisture and plant growth
Grammatikati, O. G., 21.10–429
Soil moisture availability
Baier, W., 21.6–629
Grammatikati, O. G., 21.10–429
Soil moisture balance
Stanhill, G. et al., 21.7–656
Soil moisture–beans effects
Muturi, S. N., 21.9–357
Soil moisture calculations
Grigor'eva, L. K., 21.2–242
Kel'chevskaia, L. S., 21.7–653
Nenov, I., 21.10–436
Romanenko, V. A., 21.8–496
Vangelov, A., 21.9–360
Soil moisture capacity
Rajani, H. J., 21.11–441
Soil moisture charts
Molga, M., 21.8–493
Soil moisture conductivity
Rhoades, J. D., 21.11–442
Soil moisture conferences
Nind, T. E. W., 21.2–513
Soil moisture conservation
Hart, G. E., 21.5–654
Soil moisture consumption
Vangelov, A., 21.9–360
Soil moisture control
Wildung, R. E., 21.7–658
Soil moisture–corn yield effects
Lal, R. et al., 21.8–490
Olson, T. C., 21.12–460
Soil moisture–crops effects
Koronkevich, N. I., 21.11–437
Salter, P. J. et al., 21.9–359
Soil moisture deficiency
Dagg, M., 21.8–485; 21.9–353
Rickard, D. S. et al., 21.5–655
Soil moisture depletion
Luebs, R. E. et al., 21.8–679
Soil moisture determination
Levenko, I. T. et al., 21.2–281
Marsh, A. W., 21.10–559
Spasov, V., 21.2–532
Varga Haszonits, Z., 21.9–361
Soil moisture distribution
Guin, P. D. et al., 21.10–430
Molga, M., 21.8–493
Smirnova, S. I., 21.6–660
Soil moisture effects
Herbel, C. H. et al., 21.3–707
Wesseling, J., 21.3–738
Soil moisture effects on agriculture
Stanhill, G. et al., 21.7–656
Soil moisture effects on barley
Grushka, I. G., 21.2–321, –322
Soil moisture effects on corn
Ardiia, M. M., 21.7–648
Bruce, R. R. et al., 21.10–423
Soil moisture effects on crop yield
Konstantinov, A. R. et a
21.2–325
Soil moisture effects on crops
Dilkov, D., 21.7–650
More, R. J., 21.1–655
Yu, P. T., 21.7–660
Soil moisture effects on grass
Aldon, E. F., 21.2–401
Soil moisture effects on sorghum
Plaut, Z. et al., 21.10–43
Soil moisture effects on sugar cane
Hanna, L. W., 21.10–431
Soil moisture estimates
Baier, W., 21.6–629
Soil moisture estimations
Fitzpatrick, E. A. et a
21.8–487
Soil moisture evaporation
Fitzpatrick, E. A. et a
21.8–487
Soil moisture–evaporation relationships
Black, T. A. et al., 21.6
144
Soil moisture forecasting
Apetroaci, St. et al., 21.
291
Black, T. A. et al., 21.6
144
Novikov, A. G., 21.8–554
Soil moisture–grain crops effects
Nix, H. A. et al., 21.9–35
Soil moisture–grasses effects
Whalley, R. D. B. et a
21.9–322
Soil moisture–groundwat relationships
Golovanov, A. I. et a
21.10–428
Hornberger, G. M., 21.12
556
Soil moisture instruments
Lednicky, V. et al., 21.
654
Marsh, A. W., 21.10–559
Zalivadnyĭ, V. S., 21.10–

- **Soil moisture measurement**
  - Gardner, W. R., 21.8–488
- **Soil moisture measurement accuracy**
  - Vandova, M., 21.7–657
- **Soil moisture measurement techniques**
  - Greenvelt, P. H., 21.1–652
  - Hills, R. C. et al., 21.10–432
  - Stanhill, G. et al., 21.7–656
- **Soil moisture measurements**
  - Aditya, P. K. et al., 21.3–208
  - Alabushev, V. A. et al., 21.8–481
  - Bakayev, N. M. et al., 21.10–421
  - De Vries, J., 21.10–425
  - Kaplyuk, L. F., 21.5–141
  - Lednicky, V. et al., 21.1–654
  - Ryhiner, A. H. et al., 21.6–94
  - Zalivadnyĭ, V. S., 21.10–82
- **Soil moisture movement**
  - Ben Harrath, A. et al., 21.1–648
  - Bolt, G. H. et al., 21.1–649
  - Churaev, N. V., 21.11–365
  - Davidson, J. M. et al., 21.9–355
  - Drake, R. L., 21.7–651
  - Elrick, D. E., 21.1–651
  - Hornberger, G. M., 21.12–556
  - Kirkby, M. J., 21.1–771
  - Miller, D. E., 21.8–492
  - Peck, A. J., 21.11–440
  - Philip, J. R., 21.8–495
  - Prill, R. C., 21.2–564
  - Vangelov, A., 21.1–658
  - Wildung, R. E., 21.7–658
  - Zamammurad, Kh. et al., 21.10–439
- **Soil moisture–nitrogen content**
  - Kulik, M. S., 21.1–653
- **Soil moisture physics**
  - Kaplyuk, L. F., 21.11–436
- **Soil moisture–plant effects**
  - De Roo, H. C., 21.8–486
- **Soil moisture–plant growth**
  - More, R. J., 21.1–655
- **Soil moisture–plant growth relationships**
  - Blake, G. J. et al., 21.10–422
- **Soil moisture–plant relationships**
  - White, T. C. R., 21.11–445
- **Soil moisture profiles**
  - Kaplyuk, L. F., 21.11–436
  - Philip, J. R., 21.8–495
  - Vangelov, A., 21.1–658
- **Soil moisture regime**
  - Fitzpatrick, E. A. et al., 21.8–487
  - Qashu, H. K., 21.5–656
  - Stepanov, I. N., 21.4–179
  - Val'mene, E., 21.10–438
  - Veredchenko, Iu. P., 21.8–498
- **Soil moisture reserve calculations**
  - Chukreev, V. K., 21.8–484
  - Kleshchenko, A. D., 21.8–489
- **Soil moisture reserves**
  - Zheltaia, N. N., 21.9–364
- **Soil moisture retention**
  - Miller, D. E., 21.8–492
- **Soil moisture–runoff effects**
  - Eschner, A. R. et al., 21.10–413
  - Nelson, M. W. et al., 21.10–435
- **Soil moisture–soil freezing relationships**
  - Kogan, F. N., 21.7–654
  - Sartz, R. S., 21.6–633
- **Soil moisture–soil type relationships**
  - Maslennikov, V. V., 21.4–397
  - Vel'mene, E., 21.10–438
- **Soil moisture–soya yield effects**
  - Fausey, N. R. et al., 21.10–427
- **Soil moisture supply**
  - Spasov, V., 21.2–532
- **Soil moisture–tea effects**
  - Carr, M. K. V., 21.9–352
- **Soil moisture textbooks**
  - Childs, E. C., 21.8–483
- **Soil moisture–tree growth relationships**
  - McColl, J. G., 21.12–558
  - White, T. C. R., 21.11–445
  - Zahner, R., 21.8–500
- **Soil moisture under grass**
  - Dagg, M., 21.8–485
- **Soil moisture under ground covers**
  - Murakami, R., 21.11–439
- **Soil moisture variations**
  - Fukushima, A., 21.11–435
  - Hills, R. C. et al., 21.10–432
- **Soil moisture–wheat yield effects**
  - Kirilicheva, K. V. 21.9–356
- **Soil permeability**
  - Dmitriev, E. A., 21.11–434
  - Rhoades, J. D., 21.11–442
  - Sozonov, V. A. et al., 21.11–443
- **Soil permeability instruments**
  - Larionov, G. A., 21.12–557
- **Soil–plant–water relationships**
  - Riley, J. J., 21.1–657
- **Soil properties**
  - Olson, G. W., 21.8–676
  - Smyth, A. J. et al., 21.8–677
- **Soil salinity**
  - Tadzhiyev, U., 21.4–398
  - Teterin, V. P., 21.11–444
- **Soil science**
  - Ewald, E., 21.9–462
- **Soil surface temperature forecasting**
  - Godev, N. et al., 21.1–238
- **Soil surveys**
  - U. S. Soil Conservation Service, 21.10–409
- **Soil temperature**
  - Walker, J. M., 21.4–180
- **Soil temperature calculations**
  - Basu, A. N., 21.7–454
  - Donciu C. et al., 21.3–564
- **Soil temperature control**
  - Adamenko, V. N., 21.6–467
- **Soil temperature data**
  - Dupriez, G. L., 21.8–327

  - Finland. Ilmatieteen Laitos, 21.12–458
  - Kish, A. J., 21.7–455
- **Soil temperature effects**
  - Herbel, C. H. et al., 21.3–707
- **Soil temperature effects on cotton**
  - Wanjura, D. F. et al., 21.6–434
- **Soil temperature effects on sorghum**
  - Papp, B., 21.11–325
- **Soil temperature measurement techniques**
  - Popovich, L. V., 21.1–96
- **Soil temperature measurements**
  - Mayr, E., 21.11–324
  - Müller, W., 21.12–459
- **Soil temperature–moisture relationships**
  - Galyamin, E. P., 21.4–177
- **Soil temperature recorders**
  - Savin, St., 21.5–118
- **Soil temperature regime**
  - Donciu, C., 21.11–307
  - Galyamin, E. P., 21.4–177
  - Goryshina, N. G., 21.6–461
  - Klapowa, M., 21.5–487
  - Lapshova, L. P., 21.6–463
  - Rostokin, E. N., 21.2–206
  - Stepanov, I. N., 21.4–179
  - Veredchenko, Iu. P., 21.8–498
- **Soil temperature–soil moisture relationships**
  - Fukuoka, Y., 21.8–326
- **Soil temperature studies**
  - Juhasz, J., 21.6–462
- **Soil temperature trends**
  - Dettwiller, J., 21.6–460
- **Soil temperature under cotton**
  - Lapshova, L. P., 21.6–463
- **Soil temperature under snow**
  - Mayr, E., 21.11–324
  - Radnai, K., 21.6–464
- **Soil temperature under vegetation**
  - Mayr, E., 21.11–324
- **Soil temperature variations**
  - Cable, D. R., 21.2–203
  - Dupriez, G. L., 21.8–327
  - Fukuoka, Y., 21.8–326
- **Soil tractionability**
  - White, T. E., 21.8–560
- **Soil–vegetation cover**
  - Rachkulik, V. I. et al., 21.1–656
- **Soil water movement**
  - Sartz, R. S., 21.6–633
- **Soil–water–plant relationships**
  - Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek, 21.8–494
- **Soil–water relationships**
  - Gavande, S. A. et al., 21.2–399
- **Soil water storage capacity**
  - Holtan, H. N. et al., 21.19–699
- **Soil water variations**
  - Baier, W., 21.7–649
- **Solar active regions**
  - DeJager, C., 21.2–461
  - Fortini, T. et al., 21.2–482
  - International Astronomical Union, 21.4–494
  - Tandberg-Hanssen, E. et al., 21.2–476
- **Solar activity**
  - Akademiia Nauk SSSR. Mezhduvedomstvennyĭ Geofizicheskiĭ Komitet, 21.3–727
  - Dodson, H. W. et al., 21.9–523
  - Gorbushina, G. N. et al., 21.2–366
  - Kleczek, J. et al., 21.4–448
  - Riddle, A. C., 21.3–719
  - Schmidt, H. U., 21.3–732
  - Serafimov, K. B., 21.4–67
  - Slonim, Iu. M., 21.12–627
- **Solar activity and weather**
  - Baidal, M. Kh., 21.12–576
  - Schuurmans, C. J. E., 21.8–565
- **Solar activity–auroral relationships**
  - Milton, E. R., 21.10–517
- **Solar activity centers**
  - Dodson, H. W. et al., 21.2–462
  - Martres, M. J., 21.10–648
- **Solar activity centers distribution**
  - Godoli, G. et al., 21.10–644
- **Solar activity–climate relationships**
  - Kupetskiĭ, V. N., 21.10–475
  - Schuurmans, C. J. E., 21.8–565
- **Solar activity–cosmic ray relationships**
  - Balasubrahmanyan, V. K et al., 21.10–290
- **Solar activity cycles**
  - Zhukov, L. V. et al., 21.5–716
- **Solar activity data**
  - Kodaikanal, India. Observatory, 21.11–195
- **Solar activity–dry periods recurrence relationships**
  - Baidal, M. Kh., 21.12–577
- **Solar activity–exospheric density relationships**
  - Cook, G. E., 21.12–315
- **Solar activity–general circulation relationships**
  - Baidal, M. Kh., 21.12–576
  - Loginov, V. F., 21.9–412
- **Solar activity–geomagnetic disturbances relationships**
  - Ol', A. I., 21.5–732
- **Solar activity–geomagnetic relationships**
  - Cehak, K. et al., 21.6–716
  - Drosdov, O. A. et al., 21.9–411
- **Solar activity–geomagnetism activity relationships**
  - Brochu, M., 21.2–623
- **Solar activity–glacier variations relationships**
  - Kupetskiĭ, V. N., 21.12–727
- **Solar activity indexes**
  - Zanthakis, J., 21.7–766
- **Solar activity–interplanetary magnetic field relationships**
  - Wilcox, J. M., 21.2–413
- **Solar activity–ionospheric relationships**
  - Anufrieva, T. A. et al., 21.10–151

Solar activity periodicities
Cehak, K. et al., 21.6–716
Zhukov, L. V. et al., 21.5–716
Solar activity–potential gradient relationships
Paramonov, N. A., 21.8–606
Solar activity–precipitations relationships
Baĭdal, M. Kh., 21.12–577
Solar activity predictions
Kalinkov, M., 21.4–495
Solar activity regions
Bumba, V., 21.2–459, –460
Fredga, K., 21.1–708
Macris, C. J. et al., 21.2–463
Martres, M. J., 21.2–464
Michard, R., 21.8–756
Smith, S. F., 21.2–466
Svestka, Z., 21.1–704
Syrovatskiĭ, S. I., 21.2–475
Solar activity–river regime relationships
Smirnov, N. P., 21.12–554
Solar activity–solar radio emission relationships
Feix, G., 21.8–720
Westin, H., 21.8–763
Wild, J. P., 21.9–470
Xanthakis, J., 21.7–766
Solar activity–solar X-ray emission relationships
Kreplin, R. W., 21.9–224
Michard, R. et al., 21.2–148
Wende, C. D., 21.8–302
Solar activity theories
Kopecky, M., 21.11–651
Solar activity–thermospheric relationships
Volland, H., 21.6–205
Solar activity–upper atmosphere density relationships
Jacchia, L. G., 21.6–201
Solar activity–upper atmosphere effects
King, G. A. M., 21.10–138
Solar activity velocities
Gopasiuk, S. I., 21.8–755
Solar and magnetic field relationships
Rosenberg, R. L. et al., 21.4–431
Solar astrophysics
Akademiia Nauk SSSR. Mezhduvedomstvennyĭ Geofizicheskiĭ Komitet, 21.3–727
Burgess, A. et al., 21.5–719
Solar atmosphere
Burgess, A. et al., 21.5–719
Solar atmosphere dynamics
Gilman, P. A., 21.9–542
Solar atmosphere models
Simon, M. et al., 21.8–757
Solar atmosphere motions
Beckers, J. M. et al., 21.9–530
Parnell, R. L., 21.12–626
Weber, E. J., 21.5–720
Solar atmosphere oscillations
Deubner, F. L., 21.11–647
Solar–atmospheric relationships
Drozdov, O. A. et al., 21.9–411
Loginov, V. F., 21.9–412
Schove, D. J., 21.9–268
Solar atmospheric structure
Simon, M. et al., 21.8–757
Solar breeze
Dessler, A. J., 21.9–220
Solar bremsstrahlung burst
Pinter, S., 21.8–292
Solar brightness distribution
Weart, S. R. et al., 21.6–733
Solar brightness temperature
Eddy, J. A. et al., 21.8–751
Tlamicha, A., 21.8–726
Solar cells
Lanzerotti, L. J., 21.8–283
Solar chromosphere
Dubov, E., 21.2–496
Solar composition
Bowers, B. C., 21.11–660
Garz, J., 21.11–661
Solar constant
Makarova, E. A. et al., 21.2–505
Solar constant determination
Murcray, D. G. et al., 21.6–360; 21.10–269
Thekaekara, M. P. et al., 21.5–444
Solar continuum
Noyes, R. W., 21.10–667
Solar convection
Mattig, W. et al., 21.9–527
Simon, G. W., 21.2–468
Syrovatskiĭ, S. I., 21.2–475
Solar corona heating
Kuperus, M., 21.11–638
Solar corona photographs
Nesterko, N. A., 21.12–642
Solar corona photography
Delone, A. B. et al., 21.9–549
Lafinneur, M., 21.9–552
Solar corona photography techniques
Pope, T., 21.10–658
Solar corona physics
Beigman, I., 21.12–640
Solar corona structure
Ness, N. F., 21.10–286
Solar corpuscular–atmospheric circulation relationships
Mustel', E. R., 21.7–427
Solar corpuscular influences
Tulinov, V. F., 21.11–224
Solar corpuscular radiation
Filz, R. C. et al., 21.7–406
Solar corpuscular radiation effects
Bolotinskaia, M. Sh. et al., 21.6–291
Shapiro, R., 21.8–252
Solar corpuscular streams
Ferraro, V. C. A., 21.2–138
Solar cosmic rays
Baker, M. B. et al., 21.7–392
Filz, R. C. et al., 21.7–406
McDonald, F. B., 21.10–298
Velinov, P., 21.7–424
Solar–cosmic rays effects
Hsieh, K. C., 21.10–591
Solar cycle
Fracassini, M. et al., 21.2–452
Hirshberg, J., 21.5–725
Vitinskiĭ, Iu. I., 21.10–645

- **Solar cycle–atmospheric circulation relationships**
  - Wiin-Nielsen, A., 21.7–280
- **Solar cycle–cosmic ray relationships**
  - Balasubrahmanyan, V. K., 21.2–160
  - Forbush, S. E., 21.7–409
- **Solar cycle effects**
  - Shefov, N. N., 21.6–391
- **Solar cycle periodicity**
  - Yacob, A., 21.12–644
- **Solar dashes**
  - Krat, V. A., 21.2–486
- **Solar dashes spectra**
  - Krat, V. A., 21.2–486
- **Solar depression angle**
  - Sandford, B. P., 21.10–47R
- **Solar disk**
  - Beckers, J. M. et al., 21.9–530
  - Ngan, N., 21.12–625
- **Solar disk spectrum**
  - Sauval, A. J., 21.10–669
- **Solar disk temperatures**
  - Eddy, J. A. et al., 21.8–751
- **Solar distilleries**
  - Chan, G. L., 21.11–693
  - Cooper, P. I., 21.1–423
  - Elnesr, M. K., 21.3–495
  - Howe, E. D., 21.8–835
  - Kamal, I., 21.11–761
  - Morse, R. N., 21.9–640
  - Tleimat, B. W. et al., 21.2–113
- **Solar diurnal cosmic ray variations**
  - Dorman, L. I. et al., 21.2–163
- **Solar diurnal geomagnetic variations**
  - Chapman, S. et al., 21.5–735
- **Solar EUV**
  - Hall, L. A. et al., 21.3–508
- **Solar EUV absorption in Jupiter atmosphere**
  - Henry, R. J. W. et al., 21.6–709
- **Solar EUV radiation**
  - Donnelly, R. F., 21.9–540
  - Hinteregger, H. E. et al., 21.7–159
- **Solar EUV spectrum**
  - Bowers, B. C., 21.11–660
  - Neupert, W. M., 21.2–501
  - Tousey, R. et al., 21.2–507
  - Withbroe, G. L., 21.12–648
  - Zirin, H., 21.11–666
- **Solar eclipse**
  - Bojkov, R. D., 21.4–11
  - Chimonas, G., 21.6–669
  - Hoy, R. D., 21.10–542
  - *Nature* [London], 21.11–572
  - Radu, St. et al., 21.3–101
- **Solar eclipse, Oct. 1959**
  - Skinner, N. J., 21.8–200
- **Solar eclipse, May 1965**
  - Gassmann, G. J. et al., 21.9–165
- **Solar eclipse, May 1966**
  - Drago, F. G. et al., 21.4–442
  - Karapiperis, L. N., 21.9–413
  - Sakhanov, V. V., 21.5–441
  - Simon, G., 21.3–531
  - Yadav, B. R. et al., 21.5–442
- **Solar eclipse, Nov. 1966**
  - Weart, S. R. et al., 21.6–733
- **Solar eclipse, Sept. 1968**
  - Delone, A. B. et al., 21.9–549
  - Lafinneur, M., 21.9–552, –553
  - Meisel, D. D., 21.10–285
  - Nesterko, N. A., 21.12–642
  - Osherovich, A. L. et al., 21.9–150
  - Schatten, K. H., 21.9–555
- **Solar eclipse, Sept. 1969**
  - *Sky and Telescope* [Cambridge, Mass.], 21.12–653
- **Solar eclipse, March 1970**
  - Everson, C. E., 21.8–507
  - Stewart, J. W., 21.2–510
- **Solar eclipse effects**
  - Chimonas, G., 21.6–669
- **Solar eclipse effects on ozone**
  - Yadav, B. R. et al., 21.5–442
- **Solar eclipse–ozone effects**
  - Yadav, B. R. et al., 21.5–442
- **Solar eclipse–radiation effects**
  - Yadav, B. R. et al., 21.5–442
- **Solar effects on cosmic rays**
  - Fisk, L. A. et al., 21.9–47
  - Hayakawa, S., 21.9–479
  - Sakai, T., 21.9–481
- **Solar effects on stratospheric circulation**
  - Webb, W. L., 21.1–387
- **Solar electric currents**
  - Carlqvist, P., 21.10–651
- **Solar electron density**
  - Drago, F. G. et al., 21.4–442
- **Solar energy budget**
  - Libby, L. M., 21.2–456
- **Solar energy collectors**
  - Souka, A. F., 21.1–431
- **Solar energy devices**
  - O'Brien, K. G. et al., 21.2–112
- **Solar energy predictions**
  - Kopal, Z., 21.2–405
- **Solar energy utilization**
  - Glaser, P. E., 21.2–110
- **Solar environment**
  - Baikov, I. S. et al., 21.7–764
- **Solar faculae brightness**
  - Dickie, R. H., 21.6–721
- **Solar faculae models**
  - Pande, M. C. et al., 21.9–525
- **Solar filament magnetic field**
  - Ioshpa, B. A., 21.11–650
- **Solar filament models**
  - Anzer, U., 21.12–637
- **Solar filament spectra**
  - Bruzek, A., 21.12–638
  - Ohman, Y., 21.9–548
- **Solar filaments**
  - Bruzek, A., 21.1–689
  - Efanov, V. et al., 21.4–444
  - Smith, S. F., 21.12–639
  - Zirin, H., 21.11–644
- **Solar flare activity**
  - Bumba, V., 21.1–698
  - McKenna, S. M. P., 21.6–726
- **Solar flare alpha particles**
  - Lanzerotti, L. J., 21.12–624

Solar flare–cosmic ray effects
Ballif, J. R. et al., 21.10–650
Solar flare cosmic rays
Bukata, R. P. et al., 21.9–538
Feit, J., 21.7–405
Lanzerotti, L. J., 21.2–166
Miroshnichenko, L. I., 21.7–416
Palmeira, R. A. R. et al., 21.7–417
Solar flare data analysis
Dodson, H. W. et al., 21.2–480
Solar flare development
Beigman, I. L. et al., 21.5–717
Dizer, M., 21.9–539
Falciani, R. et al., 21.2–481
Krivsky, L., 21.2–487; 21.11–634
Stepanian, N. N., 21.12–628
Solar flare distribution
Martres, M. J., 21.1–703
Vitiniskiĭ, Iu. I., 21.11–628
Solar flare effects
Bumba, V., 21.1–698
Hayashi, K., 21.28–382
Korobeĭnikov, V. P., 21.12–623
Martres, M. J., 21.1–703
Solar flare effects on ionosphere
Alurkar, S. K., 21.11–550
Donnelly, R. F., 21.2–69
Solar flare effects on radio wave propagation
Barletti, R. et al., 21.2–133
Solar flare effects on solar wind
Hirshberg, J., 21.6–725
Hundhausen, A. J. et al., 21.2–144
Solar flare emission lines
Monsignori Fossi, B. C. et al., 21.10–674
Solar flare emissions
Arnoldy, R. L. et al., 21.2–132
De Jager, C., 21.10–652
Donnelly, R. F., 21.2–69; 21.9–540
Garriott, O. K. et al., 21.10–282
Korobeĭnkov, V. P., 21.2–485
Krivsky, L., 21.11–635
Lingenfelter, R. E., 21.9–543
Svestka, Z., 21.11–640
Van Allen, J. A. et al., 21.2–153
Solar flare flux
Anastassiades, M. et al., 21.10–581
Solar flare–geomagnetism effects
Krivsky, L., 21.11–636
Solar flare–ionosphere effects
Donnelly, R. F., 21.9–540
Krivsky, L., 21.11–636
Schwitters, M. T., 21.10–187
Solar flare–magnetic storm relationships
Ballif, J. R. et al., 21.10–650
Solar flare mechanics
Carlqvist, P., 21.1–699
Gold, T., 21.1–702
Hyder, G. L., 21.2–483
Menzel, D. H., 21.10–658
Pinter, S., 21.8–292
Sturrock, P. A., 21.2–492
Sweet, P. A., 21.9–544
Solar flare models
Ballario, M. C., 21.2–477
Carlqvist, P., 21.1–699; 21.10–651
De Jager, C., 21.2–479
Korobeĭnikov, V. P., 21.11–632
Menzel, D. H., 21.2–488
Sturrock, P. A., 21.2–492; 21.10–661
Solar flare motions
Ballario, M. C., 21.2–477
Bruzek, A., 21.2–478
Dodson, H. W. et al., 21.1–700
Ohman, Y., 21.1–711; 21.2–489
Svestka, Z., 21.1–705
Solar flare neutron emission
Lingenfelter, R. E., 21.9–543
Zych, A. D., 21.7–425
Solar flare observation techniques
Tallant, P. E., 21.11–642
Solar flare occurrence–solar sunspot relationships
Reilly, A. E. et al., 21.10–660
Solar flare particle propagation
Krivsky, L., 21.7–374
Solar flare phenomena
Bruzek, A., 21.2–478
Houtgast, J., 21.11–630
Zirin, H., 21.2–495
Solar flare plasma
De Jager, C., 21.10–652
Solar flare–pressure relationships
Schuurmans, C. J. E. et al., 21.6–504
Solar flare productivity
De Peralta, M. T. C. et al., 21.10–654
Solar flare proton emission
Lanzerotti, L. J., 21.12–624
Solar flare–solar radio bursts relationships
Badillo, V. L., 21.11–551
Croom, D. J. et al., 21.2–423
Janssens, T. J. et al., 21.8–723
Kai, K., 21.8–724
Koeckelenbergh, A., 21.2–428
Takakura, T., 21.10–583
Teske, R. G. et al., 21.9–228
White, K. P., III, 21.12–629
Solar flare–solar radio noise burst relationships
Alurkar, S. K., 21.11–550
Solar flare–solar spectral line effects
Ohman, Y., 21.6–732
Solar flare spectra
Bowers, B. C., 21.11–660
Dodson, H. W. et al., 21.1–700
Janssens, T. J., 21.11–631
Ohman, Y. et al., 21.1–711; 21.2–489
Severnyĭ, A. B., 21.2–465

Stepanian, N. N., 21.12–628
Svestka, Z., 21.1–705; 21.11–639
Solar flare sprays
Smith, E. V. P., 21.2–491
Solar flare structure
Beigman, I. L. et al., 21.5–717
Solar flare–sunspot relationships
McKenna, S. M. P., 21.6–726
Vitiniskiĭ, Iu. I., 21.11–628
Solar flare surges
Westin, H., 21.2–493
Solar flare symposia
Nobel Symposium, 9th, Capri, Italy, June 10–12, 1968, 21.1–30
Solar flare temperatures
Friedman, H., 21.10–280
Solar flare theories
Carlqvist, P., 21.1–699
De Jager, C., 21.2–479
Gold, T., 21.1–702
Kiepenheuer, K. O., 21.2–484
Sturrock, P. A., 21.10–661
Sweet, P. A., 21.9–544
Solar flare X-ray bursts
Arnoldy, R. L. et al., 21.2–132
Beigman, I. L. et al., 21.5–717
Friedman, M. et al., 21.10–655
Holt, S. S. et al., 21.10–656
Pinter, S., 21.8–292
Vorpahl, J., 21.11–301
Zirin, H., 21.11–643
Solar flares
De Jager, C., 21.10–652
Friedman, M., 21.11–629
International Council of Scientific Unions, 21.11–547
Krivsky, L., 21.11–637
Segman, R., 21.2–490
Severnyĭ, A. B., 21.2–465
Solar–geomagnetic relationships
Pinter, S., 21.6–413
Solar–geophysical relationships
Akasofu, S. I., 21.5–673
Dorman, L. I., 21.12–428
Inter-Union Commission on Solar–Terrestrial Relationships, 21.7–701
Roederer, J. G., 21.6–668
Solar granulation
Musman, S., 21.9–528
Namba, O. et al., 21.8–762
Solar granulation spectra
Mattig, W. et al., 21.9–527
Solar heating
Khanna, M. L., 21.6–351
Solar images
Gaujard, P., 21.4–493
Solar infrared spectra
Murcray, D. G. et al., 21.10–665
Solar instruments
Bhatnagar, A., 21.3–728
Solar ionizing radiation
Friedman, H., 21.9–221
Garriott, O. K. et al., 21.10–282
Solar–ionosphere relationships
Nesterov, G., 21.2–76
Solar–ionospheric absorption effects
Rai, R. K., 21.9–177, –178
Solar–ionospheric relationships
Brinton, H. C. et al., 21.11–175
Inter-Union Commission on Solar–Terrestrial Relationships, 21.8–564
Solar limb brightness
Tlamicha, A., 21.8–726
Withbroe, G. L., 21.12–648
Solar limb darkening
Wilson, P. R., 21.8–752
Solar limb spectra
Noyes, R. W., 21.2–508
Solar limb temperatures
Wilson, P. R., 21.8–752
Solar–lower atmosphere effects
Mustel', E. R., 21.4–496
Solar Lyman alpha radiation
Monsignori Fossi, B. C. et al., 21.10–674
Solar M-regions
Roosen, J., 21.3–720
Solar magnesium
Branch, D., 21.6–720
Solar magnetic field
Bumba, V., 21.1–697; 21.2–460
Solar magnetic field effects
Feit, J., 21.7–405
Solar magnetic field–interplanetary magnetic field relationships
Wilcox, J. M., 21.11–658
Solar magnetic field measurements
Harvey, J., 21.11–648
Solar magnetic field–sunspot drift relationships
Kuklin, G. V., 21.8–765
Solar magnetic fields
Deubner, F. L., 21.11–647
Dmitrieva, M. G. et al., 21.8–761
Gilman, P. A., 21.9–542
Kopecky, M., 21.11–651, –652
Martres, M. J., 21.2–464
Nakagawa, Y., 21.12–643
Severnyĭ, A. B., 21.11–655
Simon, G. W., 21.2–468
Smith, S. F., 21.2–466
Tandberg-Hanssen, E. et al., 21.2–476
Wilcox, J. M., 21.11–657
Solar magnetism
Wild, J. P., 21.9–470
Solar magnetism measurements
Harvey, J. W., 21.11–649
Rees, D. E., 21.11–663
Solar magnetographs
Harvey, J., 21.11–648
Wiehr, E., 21.11–656
Solar magnetohydrodynamic processes
Mackle, R., 21.9–546
Solar magnetohydrodynamics
Harkness, R. L., Jr., 21.11–623
Nakagawa, Y., 21.12–643
Schmidt, H. U., 21.3–732
Weber, E. J., 21.5–720
Solar minimum
Sandie, W. G. et al., 21.7–344

Solar minimum activity
Bhatnagar, V. P., 21.3–347
Solar moustache spectra
Engvold, O. et al., 21.1–690
Koval, A. N., 21.12–620
Solar moustaches
Bruzek, A., 21.1–689
Engvold, O. et al., 21.1–690
Severnyĭ, A. B., 21.2–465
Solar neutrino flux
Watson, W. D., 21.11–621
Solar neutrino flux studies
Zatsepin, G. T. et al., 21.8–310
Solar neutron flux
Zych, A. D., 21.7–425
Solar observation techniques
Brandt, P. N., 21.3–729
Solar observations during transits
Hyder, C. L., 21.2–455
Solar occultation technique
Wallio, H. A. et al., 21.10–622
Solar Particle Alert Network
Segman, R., 21.2–490
Solar particle emission
Parker, E. N., 21.9–227
Solar phenomena
Krat, V. A., 21.2–486
Solar photography
Brandt, P. N., 21.3–729
Burton, W. M., 21.5–721
Solar photometry
Koval, A. N., 21.12–620
Leroy, J. L., 21.11–645
Solar physics
Fortini, T. et al., 21.2–454
Libby, L. M., 21.2–456
Solar physics textbooks
Brandt, J. C., 21.8–260
Solar plages
Bumba, V., 21.1–697
Dodson, H. W. et al., 21.2–462
Feix, G., 21.8–720
Godoli, G., 21.1–701
Solar plasma
Kopecky, M. et al., 21.3–731
Solar plasma flow
Hundhausen, A. J. et al., 21.2–145
Koniukov, M. V., 21.8–282
Solar plasma–geomagnetic field relationships
Dorman, L. I., 21.12–428
Solar plasma streams
Ivanov, K. G., 21.7–370
Solar polarimetry
Wiehr, E., 21.5–714
Solar power
Glaser, P. E., 21.2–110
Solar power source for satellites
Glaser, P. E., 21.2–110
Solar prominence emissions
Leroy, J. L., 21.11–645
Zirin, H., 21.11–644
Solar prominence magnetic field
Nakagawa, Y., 21.12–636
Solar prominence motions
Ohman, Y. et al., 21.2–489; 21.9–548
Solar prominence spectra
Houtgast, J., 21.2–509
Morozhenko, N. N., 21.12–635
Ohman, Y. et al., 21.2–489
Solar prominence structure
Liszka, L., 21.2–497
Nakagawa, Y., 21.12–636
Solar prominences
Kleczek, J., 21.12–634
Smith, E. V. P., 21.2–491
Valnicek, B., 21.1–707
Solar proton
Smart, D. F. et al., 21.3–543
Solar proton diffusion
Williams, D. J., 21.2–156
Solar proton energy spectra
Barcus, J. R., 21.7–395
Solar proton flare
Kinsey, J. H. et al., 21.2–147
Solar proton flux
Barcus, J. R., 21.7–395
Flindt, H. R., 21.7–408
Hudson, P. D. et al., 21.2–143
Juday, R. D. et al., 21.7–411
Montgomery, M. D. et al., 21.2–148
Novikov, A. M. et al., 21.5–464
Paulikas, G. A. et al., 21.7–381
Solar proton measurements
Adams, G. W. et al., 21.7–389
Solar proton propagation
Shishov, V. I. et al., 21.3–542
Wilcox, J. M., 21.2–414
Solar proton radiation damage
Lanzerotti, L. J., 21.8–283
Solar proton spectra
Juday, R. D. et al., 21.7–411
Solar protons
Kahler, S. W., 21.7–412
Solar protons–geomagnetic storms relationships
Paulikas, G. A. et al., 21.7–381
Solar radiation
Tsitsenko, G. V., 21.12–411
Solar radiation, Austria
Austria. Zentralanstalt für Meteorologie und Geodynamik, 21.9–193R
Solar radiation absorption
Avaste, O. A. et al., 21.7–342; 21.12–422
Vonder Haar, T. H. et al., 21.1–462
Solar radiation absorption calculations
Zvereva, S. V., 21.1–463
Solar radiation attenuation
Idso, S. B., 21.5–454
Kosters, J. J. et al., 21.3–514
Solar radiation calculations
Avaste, O., 21.12–422
Hounam, C. E., 21.6–349
Solar radiation data, Finland
Finland. Ilmatieteen Laitos, 21.9–202R
Solar radiation distribution
Avaste, O., 21.12–421
Solar radiation effects
Megaw, W. J., 21.8–357
Patrof, R. C. et al., 21.6–358

Solar radiation effects on buildings
  Andriţoiu, N. et al., 21.5–436
Solar radiation effects on crops
  Mixon, A. C. et al., 21.6–358
Solar radiation effects on plants
  Yoshida, S., 21.7–447
Solar radiation effects on potatoes
  Soltanpour, P. N. et al., 21.7–319
Solar radiation effects on space vehicles
  Cunnington, G. R. et al., 21.2–122
Solar radiation effects on temperature
  Walter, A., 21.6–359
Solar radiation–ice relationships
  Bulatov, S. N., 21.6–819
Solar radiation in forests
  Tsel'niker, Iu. L., 21.1–433
Solar radiation instruments
  Kvashnina, Z. K., 21.9–56
Solar radiation intensities
  Durasova, M. S. et al., 21.4–443
Solar radiation intensity variations
  Aizen, A. M. et al., 21.6–345
Solar radiation interplanetary dust effects
  Reay, N. K., 21.10–642
Solar radiation–ionosphere effects
  Thomas, L. et al., 21.6–382
Solar radiation measurements
  Bonhomme, R., 21.3–62
  Hufty, A., 21.4–353
  Junghans, H., 21.3–63
  Mani, A., 21.11–492
  Salati, E., 21.11–285
Solar radiation observations
  Manes, A. et al., 21.10–268
Solar radiation on buildings
  Adamenko, V. N. et al., 21.7–316
Solar radiation pressure
  Buffoni, L., 21.1–421
  Slowey, J. W., 21.5–101
Solar radiation reflection from satellites
  Buckingham, A. G. et al., 21.2–120
Solar radiation–sea temperature effects
  Samoĭlenko, V. S., 21.10–821
Solar radiation spectra
  Arvesen, J. C. et al., 21.5–437
Solar radiation–sunshine duration relationships
  Haines, D. A., 21.1–437
Solar radiation–sunshine relationships
  Viswanadham, Y. et al., 21.3–502
Solar radiation–temperature effects
  Budyko, M. I., 21.10–261
Solar radiation transmission
  Avaste, O. A. et al., 21.7–342
  Idso, S. B., 21.5–454
  Istomina, L. G., 21.12–416
  Potter, J. F., 21.12–425
  Thomas, L. et al., 21.6–382
Solar radiation variations
  Avaste, O., 21.12–421
  Chia, L. S., 21.6–353
  Piatnenkov, B. A., 21.8–238
  Reĭman, R. L., 21.7–322
Solar radio burst theories
  Kai, K., 21.11–553
  Matsuura, O. T., 21.11–554
  Sastry, Ch. V., 21.11–556
Solar radio burst–X-ray relationships
  Arnoldy, R. L. et al., 21.2–132
Solar radio bursts
  Basu, S., 21.3–718
  Croom, D. J. et al., 21.2–423
  Ellis, G. R. A., 21.4–446
  Feix, G., 21.8–721
  Kaufmann, P., 21.8–725
  Levy, G. S., 21.11–646
Solar radio bursts, type II
  Kuckes, A. F. et al., 21.4–449
  Zaĭtsev, V. V., 21.2–429
Solar radio bursts, type III
  Alexander, J. K. et al., 21.4–440
  Kuckes, A. F. et al., 21.4–449
Solar radio bursts, type IV
  Bohme, A., 21.2–420
  Boischot, A. et al., 21.2–421
  Bonme, A., 21.11–552
  Wild, J. P., 21.9–470
Solar radio–communication relationships
  Strauss, F. M. et al., 21.4–454
Solar radio emission
  Efanov, V. et al., 21.4–444
  Fomichev, V. V., 21.12–596
  Zhelezniakov, V. V., 21.12–594
Solar radio emission centers
  Clavelier, B., 21.2–422
  Kai, K., 21.8–724
Solar radio emission during flares
  Anastassiades, M., 21.10–581
  Badillo, V. L., 21.11–551
  Fokker, A. D., 21.2–426
  Friedman, M. et al., 21.10–655
  Holt, S. S. et al., 21.10–656
  Janssens, T. J., 21.11–631
  Van Allen, J. A. et al., 21.2–153
Solar radio emission measurements
  Gaitskell, J. N. et al., 21.8–722
Solar radio emission observation techniques
  Priese, J., 21.11–555
Solar radio emission observations
  Andrews, G. F., 21.2–419

Solar radio emission polarization
- Kaufmann, P. et al., 21.2–427

Solar radio emission scintillation
- Barletti, R., 21.1–333

Solar radio emission spectra
- Bohme, A., 21.11–552
- Fokker, A. D., 21.4–447
- Iudin, O. I., 21.7–748
- Warwick, J. W. et al., 21.7–749

Solar radio emission studies
- Feix, G., 21.8–719
- Iudin, O. I., 21.12–632
- Neupert, W. M. et al., 21.2–501
- Tlamicha, A., 21.8–726
- Tsuchiya, A., 21.4–456

Solar radio emission–sunspot relationships
- Bohme, A., 21.2–420
- Kleczek, J. et al., 21.4–448
- Sastri, N. S., 21.11–627

Solar radio emission variations
- Hall, L. A. et al., 21.3–508

Solar radio emissions
- Covington, A. E., 21.4–441
- Delys, C. et al., 21.2–424, –425
- Efanov, V. A. et al., 21.4–445
- Janssens, T. J. et al., 21.8–732
- Kleczek, J. et al., 21.4–448
- Nagnibeda, V. G., 21.4–450
- Picherit, F., 21.10–582
- Riddle, A. C., 21.3–719
- Roosen, J., 21.3–720; 21.4–451, –452
- Swarup, G. et al., 21.4–455
- Urbarz, H., 21.3–721

Solar radio noise burst–X-ray relationships
- Wende, C. D., 21.8–302

Solar radio noise bursts
- Covington, A. E., 21.4–441
- Fokker, A. D., 21.2–426
- Stone, R. G. et al., 21.4–453
- Swarup, G. et al., 21.4–455
- Warwick, J. W. et al., 21.7–749

Solar radio noise fluctuations
- Feix, G., 21.8–720
- Iudin, O. I., 21.7–748

Solar radio noise instruments
- Priese, J., 21.11–555

Solar radio noise spectra
- Ellis, G. R. A., 21.4–446

Solar radio outburst–solar flare relationships
- Kai, K., 21.11–553

Solar radio radiation
- Drago, F. G. et al., 21.4–442

Solar research
- Godoli, G., 21.12–618
- Howard, R., 21.3–730
- *Nature* [London], 21.4–492
- Widing, K. G., 21.2–457
- Winter, T. C., Jr., 21.2–458

Solar rotation
- Bhatnagar, A., 21.3–728
- Kate, S. et al., 21.8–753
- Livingston, W. C., 21.3–733
- Nickel, G. H., 21.8–754

Solar spectral analysis
- Beckers, J. M. et al., 21.9–530
- Fredga, K., 21.1–708
- Garz, J., 21.11–661
- Harvey, J., 21.11–648
- Hauge, Ö., 21.10–664
- Livingston, W. C., 21.6–715
- Parnell, R. L., 21.12–626
- Rees, D. E., 21.11–663
- Rogerson, J. B., Jr., 21.6–717
- Schwitters, M. T., 21.2–506

Solar spectral line intensities
- Burger, M. et al., 21.6–730
- Gonczi, G. et al., 21.6–731
- Parkinson, W. H. et al., 21.10–668

Solar spectral lines
- Bates, B., 21.11–659
- Beckers, J. M., 21.12–645
- Jordan, C., 21.2–504
- Mehltretter, J. P., 21.11–665
- Montgomery, E. F., 21.12–647
- Swensson, J. W., 21.10–670
- Withbroe, G. L., 21.12–652

Solar spectroscopy
- Arvesen, J. C. et al., 21.5–437
- Delbouille, L. et al., 21.10–663
- Houtgast, J., 21.2–509

Solar spectrum
- Thekaekara, M. P. et al., 21.5–444

Solar spectrum energy distribution
- Makarova, E. A. et al., 21.2–505

Solar stills
- Elnesr, M. K., 21.3–495
- Tleimat, B. W. et al., 21.2–113

Solar supergranulation
- Dmitrieva, M. G. et al., 21.8–761
- Janssens, T. J., 21.11–622
- Tanenbaum, A. S. et al., 21.7–768

Solar surges
- Westin, H., 21.8–763

Solar system evolution
- Kesarev, V. V., 21.4–472
- Vsekhsviatskiĭ, S. K., 21.5–713

Solar system formation
- White, M. L., 21.2–435

Solar system physics
- Molchanov, A. M., 21.6–693; 21.10–599

Solar system studies
- Camberon, A. G. W., 21.2–434

Solar telescopes
- Coulman, C. E., 21.2–453

Solar temperatures
- Feix, G., 21.8–721
- Noyes, R. W., 21.10–667
- Parkinson, W. H. et al., 21.10–668

Solar–terrestrial phenomena
- Ballario, M. C., 21.8–562

Solar–terrestrial physics
- International Years of the

Quiet Sun, 1964–1965, 21.1–28
Solar–terrestrial physics data
World Data Center A, 21.1–45
Solar–terrestrial relationships
Akasofu, S. I., 21.5–673; 21.9–145
Ferraro, V. C. A., 21.2–138
Inter-Union Commission on Solar–Terrestrial Physics, 21.7–701
Inter-Union Commission on Solar–Terrestrial Relationships, 21.8–564
International Council of Scientific Unions, 21.8–563
International Years of the Quiet Sun, 21.7–700
Khaminov, N. A., 21.5–665
Loginov, V. F., 21.5–390
Roederer, J. G., 21.6–668
Shove, D. J., 21.3–684
Verfaillie, G. R. M., 21.8–566
Solar–terrestrial relationships textbooks
Ellison, M. A., 21.12–575
Solar–terrestrial research
Olson, R. H., 21.4–361
Solar tidal effects
Brier, G. W. et al., 21.2–338
Solar ultraviolet spectra
Schwitters, M. T., 21.2–506
Solar wind
Brandt, J. C., 21.8–260
Dessler, A. J., 21.9–220
Ferraro, V. C. A., 21.2–138
Solar wind anisotropy
Griffel, D. H. et al., 21.7–368
Solar wind–atmospheric circulation relationships
Smirnov, R. V., 21.8–226
Solar wind–aurora relationships
Dungey, J. W., 21.11–531
Hargreaves, J. K., 21.10–510
Solar wind–comet interaction
Gonzales, D. E., 21.11–292
Shelby, M. E., 21.8–295
Solar wind composition
Buhler, F., 21.8–261
Ogilvie, K. W., 21.11–297
Solar wind composition measurements
Lal, D., 21.7–375
Solar wind–cosmic ray
Sousk, S. F. et al., 21.10–595
Solar wind–cosmic ray effects
Dorman, L. I. et al., 21.8–266
Jokipiĭ, J. R., 21.8–278
Newman, R. C., 21.8–288
Solar wind direction
Egidi, A. et al., 21.2–135
Solar wind disturbances
Burlaga, L. F. et al., 21.6–400
Hundhausen, A. J. et al., 21.2–144
Ivanov, K. G. et al., 21.8–277
Korobeĭnikov, V. P., 21.12–623
Ogilvie, K. W. et al., 21.9–226
Solar wind dynamics
Ivanov, K. G., 21.7–369
Parker, E. N., 21.3–530
Siscoe, G. L., 21.11–298
Sousk, S. F. et al., 21.10–595
Solar wind effects
McCormac, B. M. et al., 21.5–227
Phillips, R. J., 21.9–495
Solar wind effects on comets
Bappu, M. K. V. et al., 21.7–363
Solar wind effects on cosmic radio emission
Hewish, A. et al., 21.2–141
Solar wind effects on geomagnetic field
Olson, J. V. et al., 21.5–737
Solar wind effects on magnetosphere
Atkinson, G., 21.12–314
Lanzerotti, L. J. et al., 21.10–625
Raja Rao, K. S., 21.5–733
Solar wind equations
Eisler, T. J., 21.2–136, –137
Solar wind fluctuations
Siscoe, G. L., 21.12–431
Solar wind–geomagnetic field effects
Ivanov, K. G. et al., 21.8–277
Solar wind–geomagnetic field interaction
Neugebauer, M., 21.7–377
Pudovkin, M. I. et al., 21.10–288
Solar wind–geomagnetic relationships
Cehak, K. et al., 21.6–716
Mikerina, N. V., 21.8–714
Roosen, J., 21.4–451
Solar wind heat conduction
Forslund, D. W., 21.10–281
Hundhausen, A. J., 21.10–283
Solar wind heating
Jokipiĭ, J. R. et al., 21.7–371
Solar wind helium
Axford, W. I., 21.6–166
Solar wind instability
Cuperman, S. et al., 21.8–264
Forslund, D. W., 21.10–281
Smith, A., 21.2–151
Solar wind–interplanetary reactions
Cuperman, S. et al., 21.8–264
Solar wind investigations
Hewish, A. et al., 21.2–141
Intriligator, D. S. et al., 21.2–146
Ness, N. F., 21.10–286
Parker, E. N., 21.3–530
Solar wind–ionosphere effects
Smirnov, R. V., 21.8–296
Solar wind–lunar interaction
Alzonso-Faus, A., 21.1–1
Buhler, F., 21.8–261
Dryer, M., 21.12–429
Elco, R. A., 21.6–405

Krall, N. A., 21.11–295
Spreiter, J. R., 21.12–432
Solar wind–lunar surface effects
Grobman, W. D. et al., 21.9–491
Solar wind magnetic fields
Burlaga, L. F. et al., 21.6–400
Krall, N. A., 21.11–295
Solar wind–magnetosphere effects
Olson, W. P., 21.4–73
Solar wind–magnetospheric interaction
Chubb, D. L., 21.10–279
Dessler, A. J., 21.3–525
Dryer, M., 21.12–429
Ershkovich, A. I. et al., 21.8–210
Hundhausen, A. J. et al., 21.2–145
Intriligator, D. S. et al., 21.2–146
Samokhin, M. V., 21.8–212
Willis, D. M., 21.2–157
Solar wind measurements
Olbert, S., 21.7–379
Solar wind meteorite effects
Lal, D. et al., 21.4–491
Solar wind models
Brandt, J. C. et al., 21.8–259
Fredricks, R. W., 21.2–139
Grzedzielski, S., 21.2–140
Jokipiĭ, J. R. et al., 21.7–371
Roosen, J., 21.3–720
Urch, I. H., 21.6–418
Solar wind–Moon effects
Fuller, B. D. et al., 21.9–493
Solar wind–Moon tail relationships
Spreiter, J. R., 21.12–432
Solar wind motion
Siscoe, G. L., 21.11–298
Weber, E. J., 21.7–387
Solar wind observation techniques
Alekseev, I. A. et al., 21.6–395
Ferguson, L. D. et al., 21.8–269
Solar wind observations
Khokhlov, M. Z. et al., 21.4–152
Strong, I. B., 21.7–385
Solar wind–planetary interaction
Dryer, M., 21.12–429
Elco, R. A., 21.6–405
Solar wind plasma measurements
Morgan, M. et al., 21.8–286
Solar wind–pressure variations relationships
Smirnov, R. V., 21.8–296
Solar wind structure
Carovillano, R. L. et al., 21.6–402
Siscoe, G. L. et al., 21.6–416
Solar wind temperatures
Burlaga, L. F. et al., 21.7–365
Fredricks, R. W., 21.2–139
Khokhlov, M. Z. et al., 21.8–281
Nishida, A., 21.6–411
Solar wind theories
Dagkesamanskaia, I. M. et al., 21.6–404
Mustel, E. R., 21.9–222
Sen, H. K., 21.6–729
Solar wind–thermospheric temperatures effects
Jacchia, L. G., 21.11–320
Solar wind turbulence
Jokipiĭ, J. R. et al., 21.7–371
Solar wind velocity
Alekseev, I. A. et al., 21.6–395
Burlaga, L. F., 21.2–134; 21.7–365
Ivanov, K. G., 21.7–369
Solar wind velocity–geomagnetic activity relationships
Mansurov, S. M. et al., 21.6–409
Smirnov, R. V., 21.8–296
Solar wind–Venus interaction
Bauer, S. J., 21.12–600
Whitten, R. C., 21.5–709
Solar X-radiation
Friedman, H., 21.9–221
Solar X-radiation measurement
Simon, G., 21.3–531
Solar X-ray bursts
Frost, K. J., 21.8–271
Kane, S. R., 21.11–662
Ohki, K. I., 21.8–291
Snijders, R., 21.11–299
Takakura, T., 21.10–583
Solar X-ray effects
Schwitters, M. T., 21.10–187
Solar X-ray emission
Neupert, W. M., 21.8–287
Solar X-ray emission variability
Schwitters, M. T., 21.5–722
Solar X-ray flux
Barletti, R. et al., 21.2–133
Chambe, G., 21.6–403
Drake, J. F., Sr. et al., 21.8–267
Solar X-ray–ionospheric effects
Boyd, R. L. F., 21.6–399
Kaufmann, P. et al., 21.6–406
Meisel, D. D., 21.10–285
Solar X-ray sources
Meisel, D. D., 21.6–410
Solar X-ray spectrum
Elwert, G., 21.3–526
Snijders, R., 21.11–299
Solar X-ray spectrum measurements
Acton, L. W. et al., 21.2–129
Solar X-rays
Kreplin, R. W., 21.9–224
Solarimeters
Blackie, J. R., 21.10–73
Bosua, T. A., 21.3–180
Byrne, G. F. et al., 21.6–73
Solubility in ocean
Murray, C. N., 21.12–750
Somali Current
Bruce, J. G., 21.1–740
Sonic anemometer–thermometer
Mitsuta, Y., 21.5–123
Sonic anemometers
Businger, J. A. et al., 21.5–121

- **Sonic boom–atmosphere effects**
  - Herbert, G. A. et al., 21.4–389
- **Sonic boom propagation**
  - George, A. R. et al., 21.5–684
  - Haefeli, R. C., 21.2–392
- **Sonic boom waves**
  - George, A. R. et al., 21.5–684
  - Herbert, G. A. et al., 21.4–389
  - Pierce, A. D., 21.7–728
- **Sorghum field microclimatology**
  - Mishchenko, Z. A., 21.7–677
- **Sound absorption**
  - Monk, R. G., 21.6–681
  - Piercy, J. E., 21.8–662
- **Sound intensity estimation**
  - Frick, R. H., 21.11–544
- **Sound ranging**
  - Lee, R. P., 21.2–391
- **Sound reflection at sea surfaces**
  - Wantzell, R. A. et al., 21.4–664
- **Sound reflection from sea surfaces**
  - Zhitkovskiĭ, Iu. Iu., 21.10–800
- **Sound scattering at sea surfaces**
  - Andreeva, I. B., 21.4–665
- **Sound velocity in seawater**
  - Fedorov, I. I., 21.11–765
  - U. S. National Oceanographic Data Center, 21.4–663
- **Sound velocity variations**
  - U. S. Navy Underwater Sound Lab., New London, Conn., 21.3–771
- **Sounding equipment**
  - Carten, A. S., Jr., 21.7–11
- **South African National Antarctic Expedition**
  - South Africa. Weather Bureau, 21.5–78
- **Southern Hemisphere circulation**
  - Boĭko, A. P. et al., 21.3–429
  - Serlapov, S. T., 21.3–449
- **Southwest monsoon**
  - Desai, B. N., 21.5–511
  - India. Meteorological Department, 21.7–494
  - Kulkarni, N. S. et al., 21.8–397
  - Mukherjee, A. K. et al., 21.6–330
  - Ramamurthi, K. M., 21.7–496
  - Roy, A. K., 21.7–590
- **Southwest monsoon studies**
  - Ramaswamy, C., 21.5–513
- **Soviet Antarctic expeditions, 1965–1966**
  - Budretskiĭ, A. B., 21.8–37
  - Eskin, L. I., 21.8–808
  - Grigor'ev, Iu. A., 21.8–817
  - Kruchinin, Iu. A., 21.8–38
  - Maksutov, D. D., 21.12–53
  - Ostrekin, M. E. et al., 21.8–39
  - Shirochkov, A. V., 21.8–40
  - Tauber, G. M., 21.12–56
  - Voskresenskiĭ, A. I., 21.8–42, –43
  - Zakhariev, V., 21.7–267
- **Soviet Antarctic research**
  - Budretskiĭ, A. B., 21.8–37
  - Kruchinin, Iu. A., 21.8–38
  - Shirochkov, A. V., 21.8–40
  - Tauber, G. M., 21.12–56
- **Soviet Arctic research**
  - Dolgin, I. M. et al., 21.3–12
- **Soviet exploration of upper atmosphere**
  - U. S. National Aeronautics and Space Administration, 21.8–156
- **Soviet geography**
  - Akademiia Nauk SSSR. Institut Geografii, 21.12–1
- **Soviet geomagnetic research**
  - Akasofu, S. I., 21.9–145
- **Soviet Hydrometeorological Service**
  - Federov, E. K., 21.9–6; 21.11–8
- **Soviet literature**
  - U. S. National Aeronautics and Space Admini
tration, 21.8–156
- **Soviet meteorological research**
  - Benton, G. S., 21.7–108
  - Nikandrov, V. Ia., 21.11
13
- **Soviet oceanographic research**
  - Muromtsev, A. M., 21.1
736
  - Plunkett, R. D., 21.3–761
- **Soviet oceanography**
  - Plunkett, R. D., 21.2–65
21.9–674
- **Soviet research in oceanography**
  - *Hydrospace* [London], 21.1–725
- **Soviet satellite, Cosmos-6**
  - Shafer, Iu. G. et al., 21.
83
- **Soviet satellite, Cosmos-4**
  - Boldyrev, V. G., 21.2–1
- **Soviet satellite, Cosmos-5**
  - Dimov, N. A. et al., 21.
349
- **Soviet satellite, Cosmos-**
  - Krasnopol'skiĭ, V. A., 21.3–521
- **Soviet satellite, Cosmos-1**
  - Shifrin, K. S., 21.11–23R
  - Vimberg, G. P., 21.1
32R, –33R
- **Soviet satellite, Cosmos-1**
  - Konstantinov, B. P. et a
21.2–451
- **Soviet satellite, Cosmos-1**
  - Savenko, I. A. et al., 21.
163; 21.8–294
  - Vernov, S. N. et al., 21.
154
- **Soviet satellite, Cosmos-1**
  - Bugaeva, I. V. et al., 21.
544
  - Tolstikov, E. E., 21.3–4
- **Soviet satellite, Cosmos-1**
  - Faraponova, G. P. et a
21.3–515
  - Istomina, L. G., 21.12–4
  - Malkevitch, M. S. et a
21.6–364
- **Soviet satellite, Cosmos-1**
  - Konstantinov, B. P., 21.1
614

Soviet satellite, Cosmos-166
  Gel'freikh, G. B., 21.12–597
Soviet satellite, Cosmos-206
  Nazirov, M., 21.2–256
Soviet satellite, Cosmos-213
  Dimov, N. A. et al., 21.7–349
Soviet satellite, Cosmos-243
  Basharinov, A. E., 21.12–69
  Obukhov, A. M. et al., 21.8–346
Soviet satellite, Electron-1
  Misiura, V. A. et al., 21.7–196
Soviet satellite, Soyuz-4
  Bugaev, V. A., 21.12–377
Soviet satellites, Cosmos
  Beskin, V. A., 21.11–5R
Soviet satellites, Electron
  Al'pert, Ia. L. et al., 21.4–60
Soviet satellites, Meteor
  Vetlov, I. P., 21.11–83
Soviet space probe, Venera-4
  Avduevskiĭ, V. S., 21.2–439; 21.9–496
  Burvich, A. S., 21.9–501
  Ginzburg, A. S. et al., 21.2–440
  Israel, F., 21.8–736
  Kuz'min, A. D., 21.8–739
  Mikhnevich, V. V. et al., 21.1–684; 21.9–505
  Strelkov, G. M. et al., 21.2–442
  Vernov, S. N. et al., 21.10–306
Soviet space probe, Venera-5
  Petri, W., 21.8–741
  Zimmer, H., 21.12–605
Soviet space probe, Venera-6
  Petri, W., 21.8–741
  Zimmer, H., 21.12–605
Soviet space probe, Zond-5
  Bugaev, V. A. et al., 21.3–149
Soviet space probe, Zond-7
  Bugaev, V. A., 21.11–78
Soviet space research
  Akasofu, S. I., 21.9–145
  U. S. National Aeronautics and Space Administration, 21.8–156
  Wukelic, G. E. (ed.), 21.9–43
Space astronomy
  Goldberg, L., 21.2–294
Space charge measurements
  Bragin, Iu. A., 21.11–505
  Hutchinson, W. C. A., 21.9–426
  Strong, A. E., 21.2–356
Space charge over lakes
  Gathman, S. G., 21.7–713
Space communications
  Altschuler, E. E., 21.12–68
  Kompfner, R., 21.2–406
  Symposium on Space and Radiocommunication, Paris, June 2, 1969, 21.9–465
Space disturbances laboratory, Boulder, Colo.
  Olson, R. H., 21.4–361
Space exploration programs
  Hunten, D. M., 21.8–735
Space flight cosmic radiation dosages
  Makhmudov, B. M., 21.6–408
Space flight physiology
  Holmstrom, F. M. G., 21.8–546
Space flight radiation
  Curtis, S. B. et al., 21.8–265
Space flights
  Alexander, M., 21.3–697
Space photography
  Evans, D. C. et al., 21.1–447
Space physics research
  Olson, R. H., 21.4–361
Space probe cosmic dust measurements
  Berg, O. et al., 21.5–691
Space probe cosmic ray measurements
  Bukata, R. P. et al., 21.9–538
Space probe investigation of solar wind
  Intriligator, D. S. et al., 21.2–146
Space probe investigations
  LeBel, P. J., 21.10–618
  Vernov, S. N. et al., 21.10–306
Space probe magnetic field measurements
  Jones, D. E., 21.2–437
Space probes
  Farquhar, R. W., 21.3–151
Space research
  Clark, D. D. et al., 21.4–18
Space research and development
  National Research Council, Wash., D. C., Div. of Engineering, 21.3–156
Space research conferences
  International Council of Scientific Unions, 21.11–547
  U. S. Naval Research Laboratory, 21.3–139
Space science bibliographies
  U. S. National Aeronautics and Space Administration, 21.8–156
Space science conferences
  American Astronautical Society, 21.7–737
  International Council of Scientific Unions. Committee on Space Research, 11th Plenary Meeting, Tokyo, May 9–21, 1968, 21.7–41
Space science research
  U. S. Air Force, Cambridge Res. Labs., 21.2–5
Space science research in Netherlands
  De Jager, C., 21.8–707
Space science textbooks
  Moore, P., 21.8–708
  Wukelic, G. E. (ed.), 21.9–43
Space technology
  American Astronautical Society, 21.7–738
Space–time structure of HF
  Koniaev, K. V. et al., 21.10–833

Space vehicle aerodynamics
  Murman, E. M., 21.8–667
Space vehicle entry into planetary atmospheres
  Spiegel, J. M. et al., 21.8–743
Space vehicle heating during reentry
  Spiegel, J. M. et al., 21.8–743
Space vehicle meteorology
  Daniels, G. E., 21.5–666
Space vehicle radiative heating
  Spiegel, J. M. et al., 21.8–743
Space vehicle thermal protection
  Cunnington, G. R. et al., 21.2–122
  Spiegel, J. M. et al., 21.8–743
Spacecraft optical environment
  Evans, D. C. et al., 21.1–447
  Kovar, N. S. et al., 21.10–550
Specific heat of ice
  Pick, M. A., 21.6–812
Spectra measurement techniques
  Ariel', N. Z., 21.8–19
Spectral analysis
  Gray, L. D., 21.12–601
  Panofsky, H. A., 21.10–23
Spectral densities of reflected radiation
  Boldyrev, V. G., 21.2–119
Spectral errors
  Ariel', N. Z., 21.8–19
Spectral extinction
  Foitzik, L. et al., 21.10–140
Spectral line broadening
  Reichle, H. G., Jr., 21.2–123
Spectral radiation of plants
  Nikitinskaia, N. I., 21.1–445
Spectral reflectance measurements
  Kieffer, H., 21.5–689, –690
Spectral reflectivity
  Hansen, J. E. et al., 21.6–362
Spectral reflectivity of Mars
  Adams, J. B. et al., 21.9–512
Spectral transparency inversion
  Shifrin, K. S. et al., 21.9–415
Spectral transparency of atmosphere
  Filippov, V. L. et al., 21.7–334
Spectral variations
  Zhugzhda, Iu. D., 21.12–649
Spectrometers
  Megaw, W. J. et al., 21.8–214
Spectrophotometric method
  Cline, J. D., 21.2–718
  Fukai, R., 21.1–735
  Hoidale, G. B. et al., 21.1–296
Spectrophotometric ozone determination
  Kulkarni, R. N., 21.1–280
  Vanier, J., 21.1–329
Spectrophotometry
  Tarasov, V. V. et al., 21.6–185
Spectroradiometers
  Leiterer, U., 21.3–183
Spectroscopic analysis
  Gal'tsev, A. P., 21.10–15R
Spectroscopic temperature measurement
  Shepherd, G. G., 21.7–450; 21.12–38
Spicule models
  Avery, L. W., 21.12–630
Spicule spectrum
  Avery, L. W., 21.12–630
Spillway design
  Alexander, G. N., 21.9–589
Spillway structures
  Ardeleanu-Timofei, F., 21.5–762
Sporadic-E layer
  Hooke, W. H., 21.2–73
Sporadic-E layer (Es)
  Bencze, P., 21.6–218
  Butcher, E. C., 21.6–223
Sporadic-E layer (Es)–auroral relationships
  Buchau, J. et al., 21.10–
  Cheyney, B. J., 21.9–44
Sporadic-E layer (Es) c
tribution
  Smith, E. M., 21.2–79
Sporadic-E layer (Es) drift
  Aleksandrova, L. V., 21.12–289
  Armstrong, R. J. et
  21.6–217
  Pezhemskaia, M. D., 21.12–290
Sporadic-E layer (Es)–F2-layer relationships
  Gorinov, N., 21.5–347
Sporadic-E layer (Es)–geomagnetic relationshi
  Closs, R. L., 21.9–153
  Matsashite, S. et al., 2
  75
  Starovatov, A. A., 21.
  193
Sporadic-E layer (Es) height changes
  Starovatov, A. A., 21.
  193
Sporadic-E layer (Es) ionization
  Dorling, E. B. et al., 2
  373
  Gorinov, N., 21.5–347
  Krishna Rao, T. V., 21.
  197
Sporadic-E layer (Es) irregularities
  Calvert, W., 21.10–156
  Pezhemskaia, M. D., 21.12–290
  Rawer, K., 21.10–183
  Smith, E. K., 21.10–191
Sporadic-E layer (Es) observations
  Ovezgel'dyev, O., 21.
  308
  Smith, L. G., 21.10–192
Sporadic-E layer (Es)–solar activity relationships
  Matsashite, S. et al., 2
  75
Sporadic-E layer (Es) theories
  Allen, E. R., 21.10–150
  Layzer, D., 21.10–173

poradic-E layer (Es) ariations
Bencze, P., 21.10–153
Krishna Rao, T. V., 21.11–197
Matsashite, S. et al., 21.2–75
Rawer, K., 21.10–183
Smith, E. M., 21.2–79
poradic-E layers
Seminar on the Cause and Structure of Temperate Latitude Sporadic-E, 2nd, Vail, Colo., June 19–22, 1968, 21.1–33
poradic-E movements
Wright, J. W. et al., 21.3–382
poradic-Es layer
Ovezgel'dyev, O., 21.12–307
poradic meteors
Bel'kovich, O. I. et al., 21.10–635
Carrara, N., 21.11–600
Kaiser, T. R., 21.4–435
Stohl, J., 21.11–604
Třísková, L., 21.10–641
pores and pollens
Stix, E., 21.5–289
pring, 500-mb charts
Augulis, R. P., 21.8–371
pring flood
Nezhikhovskiĭ, R. E., 21.12–667
pring flood calculation
Sapozhnikov, V. I., 21.10–702
Zhelezniak, I. A., 21.4–586; 21.8–787
pring flood forecasting
Lieb, H. S., 21.1–777
Soczynska, U., 21.4–524
Zmieva, E. S. et al., 21.2–525
pring flood runoff
Byshovetz, L. B., 21.4–588
pring floods
Shvets, G. I., 21.7–803
U. S. Weather Bureau, 21.2–16
pring flow forecasting
Shcherbak, A. V., 21.12–680
pring frosts
Orieux, A., 21.12–451
Spring moisture supply
Martin, E. C., 21.8–453
Spring runoff forecasting
Shcherbak, A. V., 21.12–678
Spring temperatures
Chistiakova, E. A., 21.3–553
Hurst, G. W., 21.2–185
Stefanov, S. I., 21.4–164
Spring water chemistry
Takano, B., 21.5–759
Spring water discharges
Oka, T., 21.11–715
Spring wheat
Iaroshevskiĭ, V. A. et al., 21.4–343
Spring wheat cultivation
Bedenko, V. P., 21.1–418
Spring wheat yields
Kirilicheva, K. V., 21.9–356
Springs
Boteva, K. et al., 21.1–793
Vostokova, E. A. et al., 21.2–566
Sprinkling irrigation
Allison, S. V., 21.7–500
Leonov, E. A., 21.11–438
Robinson, F. E. et al., 21.8–684
Squall analysis
Peskov, B. E. et al., 21.7–308; 21.12–400
Squall formation
Peskov, B. E. et al., 21.7–308; 21.12–400
Squall line forecasting
Bernet, G., 21.12–398
Squall line formation
Bernet, G., 21.12–398
Dirks, R. A., 21.3–483
Squall line thunderstorms
Agarwal, O. P. et al., 21.4–113
Squalls
Dement'eva, N. V., 21.2–101
Efimov, A. V., 21.9–336
Stability
Blackadar, A. K. et al., 21.1–357
Paulson, C., 21.1–353
Stability effects on atmospheric pollution
Parczewski, W., 21.6–180
Stability forecasting
Davis, R. T., 21.6–150
Stability indices
Granitzny, P., 21.3–85
Stability–turbulence relationships
Skoda, G., 21.5–369
Stack design
Daws, L. F. et al., 21.8–692
Stack effluent diffusion
Barry, P. J., 21.5–235
Briggs, G. A., 21.6–483; 21.8–218; 21.10–226
Bringfelt, B., 21.5–237; 21.7–480
Carson, J. E., 21.7–482
Fay, J. A. et al., 21.3–597
Gracheva, V. P., 21.9–38R
Hoult, D. P. et al., 21.3–598
Johnson, W. B., Jr. et al., 21.10–141
Kicłyo, K., 21.7–145
Manier, G., 21.6–178
Marsh, K. J. et al., 21.4–203
Moore, D. J. et al., 21.5–273
Němce, L., 21.7–485
Reidat, R., 21.2–197
Vadot, L. et al., 21.6–490
Whaley, H., 21.1–500
Stack height determination
Lehmann, A., 21.6–488
Manier, G., 21.6–178
Vadot, L. et al., 21.6–490
Stack heights
Whaley, H., 21.1–500
Standard atmosphere
Champion, K. S. W., 21.5–310
Groves, G. V., 21.6–199
Jaachia, L. G., 21.5–315
Karjoto et al., 21.6–57
Morris, J. E., 21.11–478
Sissenwine, N., 21.8–217
Standardization in nuclear industry
Cottrell, W. B., 21.8–687
Standing waves
Mattioli, L. E., 21.1–391
Starfish nuclear explosion, 1962
Cladis, J. B., 21.11–290

Starfish radiation belt
Farley, T. A., 21.3–528
State Institute of Hydrology and Meteorology, Poland
Rojecki, A., 21.7–5
Station locations
Franken, E., 21.5–478
Stationary oscillations
LoBascio, A. et al., 21.1–351
Stationary waves
Eliassen, A., 21.5–536
Statistical agrometeorology
Pătăchie, I., 21.7–693
Rogojan, I. et al., 21.10–467
Statistical analysis of ocean temperatures
Navrotskiĭ, V. V. et al., 21.2–700
Statistical analysis of precipitation
Dyer, T. G. J., 21.10–386
Llamas, J., 21.7–588
Polishchuk, A. I., 21.5–619
Verschuren, J. P., 21.8–399
Statistical analysis of rainfall
El-Tom, M. A., 21.6–595
Raman, V. et al., 21.8–398
Statistical analysis of streamflow
Rodriguez-Iturbe, I., 21.7–807
Statistical climatology
Angelov, A. et al., 21.4–310
Statistical computations
Ter-Mkrtchian, M. G., 21.5–34
Statistical forecasting
DeVorkin, D. B. et al., 21.5–32
Klein, W. H., 21.7–78
Marchenko, A. S., 21.8–114
Suzuki, E., 21.5–184
Statistical forecasting method
James, R. W., 21.6–137
Kaczmarek, Z., 21.6–138
Tribus, M., 21.8–81
Statistical forecasting techniques
Alekseev, G. A., 21.10–104
Buttenberg, M., 21.10–103
Iudin, M. I., 21.3–272
Karpeev, G. A., 21.12–137, –170
Ter-Mkrtchian, M. G., 21.12–173
Statistical geophysical data
Taubenheim, J., 21.10–13
Statistical hydrology
Sirakov, D. E. et al., 21.5–31
Yevjevich, V. et al., 21.5–745
Statistical meteorological data
Taubenheim, J., 21.10–13
Statistical meteorology
Beliaev, I. P. et al., 21.4–5
Glukhovskiĭ, A. B., 21.5–30
Sirakov, D. E. et al., 21.5–31
Statistical methods
Ohtaki, T., 21.3–45
Statistical methods in forecasting
Palmieri, G. et al., 21.7–90
Statistical methods in geophysics
Marsal, D., 21.10–7
Statistical methods in hydrology
Alexander, G. N. et al., 21.8–405, –406
Burnash, R. J. C., 21.8–785
Jenkinson, A. F., 21.10–418
Rodriguez-Iturbe, I., 21.10–753
Strupczewski, W., 21.7–776
Statistical methods in hydrometeorology
Voronchuk, M. M., 21.12–28
Statistical methods in meteorology
Dewan, E. M., 21.1–99
Julian, P. R., 21.11–20
Marsal, D., 21.10–7
Panofsky, H. A., 21.10–23
Schickedanz, P. T. et al., 21.6–18
Suzuki, E., 21.5–184
Verenchikov, N. N., 21.11–31R
Zavarina, M. V. et
21.5–25
Statistical parameters
Todaro, C., 21.2–353
Statistical pressure forecasting
Dobryshman, E. M. et
21.6–136
Statistical rainfall analy
Suzuki, E., 21.9–315
Statistical studies of ozonosphere
Ginsburg, Th., 21.5–328
Statistical turbulence theory
Lucke, O. et al., 21.1–3
21.3–427
Roth, R., 21.9–197
Statistical visibility forecasting
Nomoto, S., 21.12–152
Statistics for long-range forecasting
Vorob'eva, E. V., 21.6–
Statistics in climatology
Crutcher, H. L., 21.11–8
Statistics of long-range forecasting
Worner, H., 21.1–248
Statistics textbooks
Craddock, J. M., 21.7–1
Marsal, D., 21.10–7
Stellar astrophysics
Godoli, G., 21.1–712
Stellar spectra
Meekins, J. F. et al., 21
468
Stellar ultraviolet radiation
Hayakawa, S. et al., 2
57
Stellar X-rays
Burgess, B. et al., 2
168
Stepped leader
Barreto, E., 21.8–621
Uman, M. A. et al., 2
640
Stereo-cloud photograph
Renick, J. H. et al., 21.
28
Stereophotogrammetric survey of clouds
Tries, P., 21.9–297
Stereoscopic photograph
Garger, E. K., 21.4–202

Stochastic hydrology
Kisiel, C. A., 21.4–509
Stochastic process
Nachazel, K., 21.2–522
Todorovic, P. et al., 21.5–610
Verschuren, J. P., 21.8–399
Stokes' wave
Kenyon, K. E., 21.8–841
Stomatal closure measurements
Fordham, R., 21.10–361
Storm analysis
Visconti, I., 21.12–375
Storm damage
Cressman, G. P., 21.7–283
Storm development
Visconti, I., 21.12–375
Storm drainage research
Duff, H. W., 21.7–584
Storm flood forecasting
Richards, M. M. et al., 21.9–603
Storm floods
Kruhl, H., 21.6–497
Storm modification
Lavoie, R. L., 21.11–480
Storm precipitation
Todorovic, P. et al., 21.5–610
Storm precipitation analysis manuals
World Meteorological Organization, 21.5–625
Storm rainfall
Lautzenheiser, R. E. et al., 21.10–392
Storm rainfall distribution
Fogel, M. M., 21.7–615
Shenoy, R. C. et al., 21.10–394
Storm rainfall variations
Shenoy, R. C. et al., 21.10–394
Storm runoff
Betson, R. P. et al., 21.8–454
Storm runoff calculations
Rostomov, G. D., 21.9–600
Storm–sea level effects
Korobova, I. Ia., 21.9–203
Storm sewer design
Duff, H. W., 21.7–584
Storm surge generation
Holland, G. L., 21.2–777
Storm surges
Donn, W. L., 21.12–373
Isozaki, I., 21.6–322
Storm warning services
Tennessee. Office of Civil Defense, 21.9–107
Stormers theory
Nikol'skiĭ, A. P., 21.1–537
Strait–ocean currents effects
Gill, A. E., 21.4–730
Stratified clouds
Dymnikov, V. P., 21.3–639
Stratiform clouds
Asselin de Beauville, J. P., 21.7–563
Podgurskaia, V. N. et al., 21.10–373
Stratopause
Beyers, N. J., 21.12–60
Stratopause studies
Randhawa, J. S., 21.4–59
Stratosphere–ionosphere interaction
Bowhill, S. A., 21.6–221
Maeda, K. I., 21.12–280
Stratosphere–troposphere exchange
Bouscaren, R. et al., 21.8–153
Stratosphere–troposphere interaction
Hirota, I. et al., 21.6–293
Nordberg, W., 21.7–154
Rakipova, L. R., 21.6–315
Stratospheric absorption
Rigaud, P., 21.4–145
Stratospheric aerosol layer
Rigaud, P., 21.4–145
Scott, W. D. et al., 21.1–319
Stratospheric aerosol measurements
Bellman, R. et al., 21.8–570
Shah, G. M., 21.12–258
Stratospheric aerosols
Shah, G. M., 21.12–258
Unz, F., 21.5–299
Stratospheric anticyclones
Scherhag, R., 21.7–453
Stratospheric balloons
Brearley, M. N., 21.3–625
Reininger, E., 21.6–62
Stratospheric carbon dioxide
Georgiĭ, H. W. et al., 21.3–317, –348
Stratospheric carbon monoxide
Pressman, J. et al., 21.6–167
Seiler, W. et al., 21.6–166
Stratospheric circulation
Bugaeva, I. V. et al., 21.2–88
Kats, A. L., 21.10–23R
Khanevskaia, I. V., 21.6–295
Labitzke, K., 21.2–201
Meyer, W. D., 21.11–169
Rahmatulla, M., 21.12–369
Sazonov, B. I., 21.7–264
Webb, W. L., 21.1–387; 21.9–405; 21.11–250
Stratospheric circulation indices
Johnson, K. W. et al., 21.5–412
Stratospheric circulation models
List, R. J. et al., 21.3–432
Stratospheric circulation regime
Bugaeva, I. V., 21.6–510
Hirota, I. et al., 21.6–293
Stratospheric circulation–stratospheric warming relationships
Hoebbel, W., 21.12–456
Stratospheric circulation studies
Williamson, L. E., 21.12–64
Stratospheric circulation symposia
Webb, W. L., 21.1–323
Stratospheric circulation winter
Hirota, I., 21.11–84R
Stratospheric climatology
Webb, W. L., 21.9–405
Stratospheric density
Logvinov, K. T., 21.11–154
Stratospheric disturbances
Maruyama, T., 21.7–276
Stratospheric dust
Volz, F. E., 21.12–270
Stratospheric dust clouds
Elterman, L., 21.3–344

- **Stratospheric energetics**
  - Newell, R. E. et al., 21.1–384
- **Stratospheric energy regime**
  - Paulin, G., 21.1–317
- **Stratospheric entrapped fission products**
  - Zindler, H., 21.1–346
- **Stratospheric heat balance**
  - Mahlman, J. D., 21.3–353
- **Stratospheric heating**
  - Paulin, G., 21.1–317
- **Stratospheric humidity**
  - Komarov, V. S., 21.9–275
- **Stratospheric humidity profiles**
  - Komarov, V. S., 21.2–239; 21.9–274
- **Stratospheric–ionospheric absorption relationships**
  - Schwentek, H., 21.6–203
- **Stratospheric meteorology**
  - Finger, F. G., 21.10–148
- **Stratospheric mixing**
  - Mahlman, J. D., 21.11–247
- **Stratospheric mixing ratio**
  - Kuhn, P. M. et al., 21.5–549
- **Stratospheric moisture**
  - Neporent, B. S. et al., 21.3–76
- **Stratospheric polar vortexes**
  - Mahlman, J. D., 21.5–401; 21.11–247
  - Miyakoda, K. et al., 21.6–297
  - Scherhag, R., 21.7–453
- **Stratospheric radioactive fallout**
  - Crozaz, G., 21.2–621
- **Stratospheric synoptic process**
  - Buldovskiĭ, G. S., 21.9–256
- **Stratospheric temperature and wind field**
  - Crossley, A. F., 21.12–454
  - Khanevskaia, I. V., 21.6–295
- **Stratospheric temperature distribution**
  - Blamont, J. E., 21.7–451
- **Stratospheric temperature measurement techniques**
  - Misme, P., 21.11–33
- **Stratospheric temperature measurements**
  - Hyson, P., 21.12–89
  - Yata, A., 21.12–90
- **Stratospheric temperature–pressure relationships**
  - Barg, B., 21.7–452
- **Stratospheric temperature profiles**
  - Moskaleva, I. M., 21.9–252
- **Stratospheric temperature regime**
  - Vertlib, A. B. et al., 21.3–562
- **Stratospheric temperature variations**
  - Angell, J. K. et al., 21.5–486
  - Farkas, E., 21.5–326
  - Khanevskaia, I. V., 21.9–247
- **Stratospheric tides**
  - Jones, W. L., 21.12–356
- **Stratospheric–tropospheric flow relationships**
  - Faust, H., 21.6–193
  - Maede, H., 21.10–343
- **Stratospheric turbidity**
  - Unz, F., 21.5–299
  - Volz, F. E., 21.12–270
- **Stratospheric turbulence**
  - Buldovskiĭ, G. S., 21.9–256
- **Stratospheric vortices**
  - Rafailova, Kh. Kh., 21.2–61
- **Stratospheric warming**
  - Johnson, K. W., 21.3–350
  - Labitzke, K., 21.2–201
  - Madlow, E., 21.6–213
  - Quiroz, R. S., 21.3–354
  - Rakipova, L. R., 21.6–315
  - Rowe, J. N., 21.3–355
  - Scherhag, R., 21.7–453
- **Stratospheric warming–ionospheric absorption relationships**
  - Sinno, K. et al., 21.7–202
- **Stratospheric warming–ionospheric variation relationships**
  - Grasnick, K. H., 21.10–149
- **Stratospheric warming–ozone variations relationships**
  - Hoebbel, W., 21.12–456
- **Stratospheric warming phenomenon**
  - Barg, B., 21.2–200; 21. 452
- **Stratospheric water vap content**
  - Newell, R. E., 21.12–490
- **Stratospheric water vap distribution**
  - Murcray, D. G. et al., 21.7–523
- **Stratospheric water vap measurement techniques**
  - Murcray, D. G. et al., 21.7–523
- **Stratospheric water vap measurements**
  - Gebbie, H. A., 21.12–489
  - Kuhn, P. M. et al., 21. 549
- **Stratospheric water vap profiles**
  - Kuhn, P. M. et al., 21. 549
- **Stratospheric waves**
  - Hirota, I., 21.12–367
  - Lindzen, R. S., 21.11–257
- **Stratospheric wind profil**
  - Brearley, M. N., 21.3–6
- **Stratospheric wind variations**
  - Angell, J. K. et al., 21. 486
- **Stratospheric winds**
  - Bruch, A. et al., 21.3–6
- **Stratospheric winds in Eurasia's temperate zone**
  - Afanas'ev, G. T., 21.12–4
- **Stratospheric winter temperatures**
  - Schmidlin, F. J., 21.3–5
- **Stratus cloud heights**
  - Tkachenko, A. V. et a 21.10–381
- **Stratus clouds**
  - Johnson, F. G., 21.8–361
- **Stratus forecasting**
  - Bernachi, D. A., 21.11–2
  - Yee, L., 21.11–116
- **Stream gaging techniques**
  - Brown, H. E., 21.4–510
  - Stewart, R. L., 21.10–692
  - Uryvaev, V. A. et a 21.7–812

Streambed elevation graphs
Hickey, J. J., 21.7–777
Streamflow
Ledger, D. C., 21.12–704
Moore, W. L. et al., 21.8–794
Shcherbak, A. V., 21.12–680
Streamflow analysis
Beard, L. R., 21.2–576
Glos, E. et al., 21.9–595
Grinevich, G. A., 21.2–581
Julian, P. R., 21.11–20
Koch, N. C., 21.12–700
Moreau, D. H., 21.12–699
Nachazel, K., 21.2–522
Rodriguez-Iturbe, I., 21.7–807
Streamflow calculations
Denisov, V. M., 21.10–749
Koren', V. I., 21.2–537
Martin, C. S. et al., 21.10–562
Volkova, Z. F., 21.2–589
Zielinska, M., 21.11–734
Streamflow–channel relationships
Byshovets, L. B., 21.4–588
Streamflow data
Danske Hedeselskab, Copenhagen, 21.2–519
Streamflow data, Australia
Australia. Dept. of National Development, 21.10–113R
Streamflow estimation
Bagley, J. M. et al., 21.9–590
Carroon, L. E., 21.10–747
Garcia, L. E., 21.9–654
Liser, I. Ia., 21.2–583
Nechaeva, N. S., 21.2–584
Riggs, H. C., 21.2–612
Shveĭkin, Iu. V. et al., 21.4–584
Williams, G. E., 21.1–646
Streamflow forecasting
Eschner, A. R. et al., 21.10–413
Nelson, M. W. et al., 21.10–435
Rakhmanov, V. V. et al., 21.2–523
Shestakova, R. A., 21.12–157
Streamflow forecasts
Rudometov, M. V., 21.12–666
Streamflow–forest cover relationships
Bochkov, A. P., 21.11–481
Streamflow increase
Brown, H. E., 21.12–693
Streamflow measurement techniques
Ardeleanu-Timofei, F., 21.5–762
Smith, C. D. et al., 21.9–577
Smoot, G. F. et al., 21.9–578
Streamflow measurements
Buchanan, T. J., 21.11–720
Dunn, B., 21.11–721
Stoner, J. D., 21.10–751
Yen, B. C., 21.12–701
Streamflow regime
Kritskiĭ, S. N. et al., 21.2–582
Ratkovich, D. Ia., 21.2–585
Streamline analysis
Frost, R., 21.4–239
Strength of ice
Weeks, W. F. et al., 21.5–774
Strong wind analysis
Chistiakov, A. D., 21.12–480
Snitkovskiĭ, A. I. et al., 21.1–516
Stanev, Sv. et al., 21.1–518
Strong wind forecasting
Veselov, E. P., 21.1–236
Strong wind frequencies
Sorochinskiĭ, M. A. et al., 21.1–517
Strong wind probabilities
Anisimova, T. N., 21.11–342
Strong wind regime
Belinskiĭ, O. N., 21.1–515
Sorochinskiĭ, M. A. et al., 21.1–517
Uttinger, H., 21.3–615
Strong winds
Dolganov, L. V., 21.3–614
Nania, A., 21.5–516
Strontium in seawater
Bojanowski, R. et al., 21.8–839
Strontium-90 environment contamination
Cupka, S. et al., 21.3–403
Strontium-90 fallout
Gibbs, W. J., 21.12–343
Machta, L. et al., 21.10–213
Taylor, C. B., 21.3–407
Volchok, H. L., 21.11–220
Strontium-90 fallout in rain
Gibbs, W. J., 21.12–343
Strontium-90 in lakes
Machta, L. et al., 21.10–213
Volchok, H. L., 21.11–220
Strontium-90 in seawater
Beliaev, V. I. et al., 21.4–678
Submarine canyon currents
Shepard, F. P. et al., 21.4–660
Submarine topography–current effects
Kozlov, V. F., 21.4–736
Submarine topography effects on currents
Orlanski, I., 21.4–737
Submillimeter astronomy
Gaitskell, J. N. et al., 21.8–722
Gebbie, H. A. et al., 21.7–747
Subsidence in maritime air
Desai, B. N., 21.2–106
Subsurface current measurements
Ramster, J. W. et al., 21.4–719
Subsurface flow
Jamieson, D. C. et al., 21.6–749
Subsurface heat glow
Bulatov, S. N., 21.3–573
Subsurface temperature measurements
Levenko, A. A., 21.1–95
Subtropical anticyclones
Neyama, Y., 21.3–486
Subtropical convergence
Heath, R. A., 21.2–726
Subtropical countercurrent
Uda, M., 21.12–768
Subtropical jet stream
Campbell, A. P., 21.4–283

Koteswaram, P., 21.10–107
Reiter, E. R. et al., 21.5–523
Weinert, R. A., 21.5–526
Subtropical jet-stream structure
Martin, F. L., 21.11–350
Sudden commencement–ionospheric relationships
Shashun'kina, V. M., 21.9–181
Sudden frequency deviations
Donnelly, R. F., 21.9–540
Strauss, F. M. et al., 21.4–454
Sudden ionospheric disturbances
Donnelly, R. F., 21.2–69
Jean, A. G. et al., 21.2–74
Jusick, A. T. et al., 21.8–183
Nestorov, G., 21.2–76
Sugar beet cultivation
Robinson, F. E. et al., 21.8–684
Sugar beet water requirements
Blackie, J. R. et al., 21.9–351
Sugar beet yield
Robinson, F. E. et al., 21.8–684
Sugar beets
Burrows, F. J., 21.9–276
Sugarcane cultivation
Hanna, L. W., 21.10–431
Sugarcane irrigation
Gavande, S. A. et al., 21.4–401
Sugarcane irrigation requirements
Ateshian, K. H. et al., 21.8–678
Sulfate concentration in rainwater
Beilke, S. et al., 21.2–265
Sulfate particles
Georgiĭ, H. W., 21.5–218
Sulfates in rainwater
Cortecci, G. et al., 21.10–383
Sulfates in sea water
Cline, J. D. et al., 21.5–790
Sulfur cycle
Georgiĭ, H. W., 21.12–210
Sulfur dioxide content of air
Beilke, S. et al., 21.2–265
Schmidt, F. H. et al., 21.5–284
Sulfur dioxide diffusion
Renderson, D., 21.7–257
Sulfur dioxide in fog
Beilke, S. et al., 21.2–265
Sulfur dioxide in the atmosphere
Goroshko, B. B., 21.9–37R
Sulfur dioxide in urban air
Blade, E. et al., 21.7–135
Sulfur dioxide measurement techniques
Killick, C. M., 21.10–91
Sulfur dioxide measurements
Beran, F. et al., 21.6–105
Shikiya, J. M. et al., 21.10–89
Warmbt, W., 21.6–111
Sulfur dioxide production
Hales, J. M. et al., 21.7–144
Sulfur in atmosphere
Georgiĭ, H. W., 21.12–210
Sulfur lines in solar system
Swensson, J. W., 21.10–670
Sulfur oxides in atmosphere
U. S. National Air Pollution Control Administration, 21.7–152
Sulfur-35 in atmosphere
Hicks, B. B., 21.5–255
Sulfuric pollution
Beveridge, G. S. G., 21.12–229
Sultriness data
Schnelle, F., 21.2–327
Sultriness regime
Troll, C., 21.10–470
Summer drought
Ramage, C. S., 21.2–264
Summer 500-mb charts
Augulis, R. P., 21.8–372
Summer monsoon
Harris, B. E. et al., 21.5–306
Saha, K., 21.3–612
Summer monsoon mechanism
Kurashima, A., 21.1–512
Summer precipitation distribution
Bogatyr', L. F., 21.7–594
Summer precipitation variability
Bogatyr', L. F., 21.7–594
Summer temperature anomalies
Nagai, T., 21.7–431
Summer weather
Alisov, B. P., 21.8–520
Hosking, K. J., 21.9–375
Hurry, D. G. W., 21.3–
Murray, R. et al., 21.5
Ten Kate, H., 21.12–5
Yoshino, M., 21.8–328
Summer weather indices
Baker, T., 21.11–459
Sunflower crop yield
Mel'nik, Iu. S., 21.9–386
Sunglint patterns
Bowley, C. J. et al., 21
403
Sunlight effects
Woo, S. B., 21.1–283
Sunlit auroras
Harrison, A. W., 21.11–5
Sunrise and sunset tables
Zambia. Dept. of Mete
ology, 21.4–498
Sunrise angles
Zambia. Dept. of Mete
ology, 21.4–497
Sunrise–radio wave effec
Gherzi, E., 21.7–426
Sunrise–radio wave prop
gation effects
Lynn, K. J. W., 21.7–194
Sunshine calculation
Furmage, D. F., 21.12–4
Sunshine charts
Canada. Meteorological
Branch, 21.1–441
Sunshine–cloudiness relationships
Bennett, I., 21.2–118
De Maio, A. et al., 21.
239
Steinhauser, F., 21.5–443
Webster, F. B., 21.1–442
Sunshine data
Finland. Ilmatieteen La
tos, 21.5–429
Sunshine distribution
Walch, D. G., 21.5–604
Sunshine duration
Junghans, H., 21.3–63

Sunshine duration data
Lauscher, F., 21.2–293
Sunshine duration variations
De Maio, A. et al., 21.8–239
Reĭman, R. L., 21.7–322
Zerche, M., 21.3–503
Sunshine recorders
Collins, B. G. et al., 21.3–177
Sunshine variations
Chia, L. S., 21.6–353
Sunspot activity
Fortini, T. et al., 21.2–472
Sunspot brightness
Dicke, R. H., 21.6–721
Sunspot composition
Wöhl, H., 21.10–649
Sunspot cycle–weather relationships
Stuchlík, F., 21.7–702
Sunspot data
Mergenthaler, J., 21.8–767; 21.11–626
Sunspot distribution
Dezso, L. et al., 21.2–471
Vitiniskiĭ, Iu. I., 21.11–628
Sunspot effects on ionosphere
Muggleton, L. M., 21.7–197
Sunspot energy
Danielson, R. E. et al., 21.2–470
Sunspot formation
Syrovatskiĭ, S. I., 21.2–475
Sunspot–geomagnetic relationships
Roosen, J., 21.4–451
Sunspot–ionosphere relationships
Rajaram, G., 21.11–204
Sunspot magnetic field
Adam, M. G., 21.11–624
Altschuler, M. D. et al., 21.1–691
Beckers, J. M. et al., 21.9–532
Kopecký, M., 21.6–724
Krivsky, L., 21.11–633
Mallia, E. A., 21.11–654
Mattig, W. et al., 21.8–766
Moe, O., 21.1–694
Mogilevskiĭ, E. I. et al., 21.1–695
Rayrole, J. et al., 21.2–469
Sunspot magnetism
Becker, J. M., 21.1–693
Rust, D. M., 21.2–473
Sunspot minima
Bencze, P., 21.11–504
Sunspot models
Branch, D., 21.6–720
Dicke, R. H., 21.6–721
Jensen, E. et al., 21.6–723
Ruhm, H., 21.12–622
Wilson, P. R., 21.8–768
Sunspot movements
Coffey, H. E. et al., 21.8–764
Engvold, O., 21.12–621
Kuklin, G. V., 21.8–765
Martres, M. J., 21.10–648
Sunspot penumbral models
Moe, O. K. et al., 21.9–537
Sunspot penumbral spectra
Maltby, P. et al., 21.9–535
Mattig, W. et al., 21.8–766
Moe, O. K. et al., 21.9–537
Sunspot–photospheric granulation relationships
Dmitrieva, M. G. et al., 21.8–761
Korobova, Z. B. et al., 21.6–719
Sunspot pressure
Ruhm, H., 21.12–622
Sunspot–solar flare relationships
Bumba, V., 21.1–698
Fortini, T. et al., 21.2–472
Krivsky, L., 21.11–633
Martres, M. J., 21.1–703
Sawyer, C., 21.2–474
Sunspot spectra
Bappu, M. K., 21.1–706
Beckers, J. M. et al., 21.9–531, –532
Branch, D., 21.6–720; 21.12–650
Engvold, O., 21.11–625; 21.12–621
Göhring, R., 21.12–651
Mallia, E. A., 21.11–654
Mattig, W., 21.9–536
Wittmann, A. et al., 21.9–533
Wöhl, H., 21.10–671
Sunspot structure
Becker, J. M., 21.1–693
Wilson, P. R. et al., 21.8–769
Sunspot temperature
Lena, P., 21.9–534
Sunspot theories
Ferris, G. A. J., 21.6–722
Sunspot umbrae
Beckers, J. M. et al., 21.9–529, –531
Mattig, W., 21.9–536
Wilson, P. R., 21.8–768
Wittmann, A. et al., 21.9–533
Sunspot velocity field
Mattig, W. et al., 21.8–766
Sunspot–X-ray emission studies
Chambe, G., 21.6–403
Sunspots
Anderson, G. F. et al., 21.1–692
Deirmendjian, D., 21.5–715
Super adiabatic temperature gradients
Faraponova, G. P., 21.6–375
Supercooled fog dissipation
Appleman, H. S., 21.9–290
Supercooled fog dissolution
Serpolay, R. et al., 21.6–154
Supercooling of water
Countryman, K. A., 21.12–771
Superpressure balloon soundings
Spier, J. L., 21.10–58
Superpressure balloons
Lally, V. E. et al., 21.4–15; 21.6 60
Superrefraction
Bugaev, Iu. G., 21.12–318
Supersonic aircraft effects on stratospheric water vapor
Newell, R. E., 21.12–490
Supersonic flights
Petrenko, N. V., 21.7–506
Supersonic transport and meteorology
International Civil Aviation Organization, 21.12–13

Leblanc, G., 21.12–18
Rohan, P. K., 21.12–63
Surface layer diffusion
Guyot, G., 21.6–485
Panofsky, H. A., 21.1–495
Pasquill, F., 21.1–496
Surface layer elasticity
Lo Bascio, A. et al., 21.1–351
Surface layer wind profiles
Bradshaw, P., 21.7–238
Surface minimum temperatures
Ritchie, W. G., 21.7–439
Surface observations
Expédition Antarctique Belgo-Néerlandaise, 1966, 21.5–81
Surface runoff
Abdel-Razag, A. Y. et al., 21.6–625
Chen, C. L. et al., 21.10–411
Chow, V. Te., 21.11–688
Surface temperature, North Atlantic
Denmark. Meteorologisk Institut, 21.9–176R
Surface temperature estimation
Kondrat'ev, K. Ia., 21.3–565
Surface temperature fields
Ivanov, V. I. et al., 21.4–659
Surface temperature measurements
Kondrat'ev, K. Ia., 21.3–566
Lorenz, D., 21.7–456
Tag, P. M., 21.10–308
Witte, H. J., 21.1–453
Surface temperature variations
Farkas, E., 21.5–326
Surface water chemical properties
Dall'Aglio, M., 21.2–531
Surface water data
U. S. Geological Survey, 21.10–410
Surface water–groundwater relationships
Molitvin, P. V., 21.11–702
Surface water molybdenum
Voegeli, P. T., Sr., 21.12–696
Surface water research
Gale, R. M., 21.9–647
Surface water resources
Llamas, M. R., 21.6–767
Surface waves
Yamada, H. et al., 21.1–747
Surface wind forecasting
Glahn, H. R., 21.12–139
Jarvis, E. C., 21.1–235
Miller, J. E., 21.12–140
Surface wind observations
Torochkov, V. Iu., 21.4–189
Suspended sediments
Khmaladze, G. N., 21.1–797
Suspensions in river water
Angino, E. E. et al., 21.2–592
Suspensions in seawater
Czepa, O. et al., 21.4–753
Swamp hydrology
Komlev, A. M., 21.5–749
Swells
Larsonneur, C., 21.2–728
Swine physiology
Weaver, M. E., 21.7–432
Synchrotron emissions
Ramaty, R., 21.10–579
Synchrotron radiation
Molodenskiĭ, N. M., 21.1–663
Synoptic analysis
Krska, K., 21.3–446
Militaru, F. et al., 21.1–396
Taylor, J. A. et al., 21.1–18
Tolstikov, E. E., 21.3–451
Synoptic analysis and forecasting
Gruza, G. V. et al., 21.10–99
Iakovleva, N. I., 21.10–100
Synoptic charts
U. S. National Meteorological Center, 21.3–219; 21.5–147
Synoptic climatology
Barry, R. G. et al., 21.3–558; 21.4–308
Hill, J. B., 21.2–176
Johnson, F. G., 21.8–361
Kaufeld, L., 21.3–445
Lawrence, E. N., 21.11–315
Lowry, D. A. et al., 21.4–252
Masterskikh, M. A., 21.2–189
Powell, J. et al., 21.5–65
Szalay, G., 21.3–450
Synoptic climatology of Alaska, United States
Langdon, L. C., 21.11–263
Synoptic climatology of Antarctica
Phillpot, H. R., 21.4–359
Synoptic climatology of Asiatic U.S.S.R.
Pen'kov, A. P., 21.12–57
Synoptic climatology of Austria
Skoda, G., 21.3–618
Synoptic climatology of Batumi, Georgian S.S.R.
Sorokina, V. N., 21.11–27
Synoptic climatology of British Isles
Murray, R. et al., 21.5–70
Perry, A., 21.4–358
Synoptic climatology of Caribbean Sea
Fernandez-Partagas, J. J., 21.12–374
Synoptic climatology of Central Asiatic U.S.S.R.
Kaznacheeva, V. D. et al., 21.2–94
Synoptic climatology of clouds
Sadler, J. C. et al., 21.10–111
Synoptic climatology of Eastern Mediterranean
Agi, M., 21.2–95
Synoptic climatology of Japan
Matsukura, H., 21.10–474; 21.11–85R
Tsuchiya, I., 21.9–409
Synoptic climatology of precipitation
Augulis, R. P., 21.8–371 to –373
Boliaev, M. D., 21.12–533
Fletcher, R. J., 21.7–612
Gazzola, A., 21.7–599
Kaufield, L., 21.1–605
Kodrau, O. D., 21.5–608
Smith, M. F., 21.11–391
Synoptic climatology of radiation
Suziumova, G. N., 21.5–433

Synoptic climatology of rainfall
Osman, O. E., 21.7–589
Smithson, P. A., 21.8–420
Synoptic climatology of Riga, Latvian S.S.R.
Alisov, B. P., 21.7–699
Synoptic climatology of temperature
Shitara, H., 21.8–313
Sorkina, V. N., 21.7–441
Synoptic climatology of West Africa
Casanova, H., 21.12–371
Voiron, H., 21.12–370
Synoptic climatology of Yalta, Ukranian
Alisov, B. P., 21.2–337
Synoptic climatology studies
Danielsen, E. F. et al., 21.5–510
Germain, H., 21.11–484
Manabe, S. et al., 21.10–240
Synoptic cloud patterns
Bonner, W. D. et al., 21.3–148
Synoptic conditions for Bai-u
Takasugi, M. et al., 21.7–309
Synoptic conditions for calms
Streten, N. A., 21.1–513
Synoptic conditions for cold fronts
Boliaev, M. D., 21.9–208
Synoptic conditions for drought
Ramage, C. S., 21.2–264
Synoptic conditions for floods
Fea, G. et al., 21.8–471
Synoptic conditions for glaze
Page, J. K., 21.8–360
Synoptic conditions for hail
Babichenko, V. N., 21.7–639
Synoptic conditions for hailstorms
Bordovskaia, L. I., 21.11–415
Ponomarenko, S. I., 21.12–547
Staude, R., 21.12–546
Synoptic conditions for heavy rainfall
Chen, T. Y., 21.1–612
Fox, T., 21.7–616
Goto, T., 21.2–263
Kazariants, E. S. et al., 21.9–319
Lowndes, G. A. S., 21.9–91
Nakajima, C., 21.11–387
Ponomarenko, S. I., 21.1–614
Synoptic conditions for heavy snowfall
Devine, J. C., 21.8–435
Lipovskaia, V. I., 21.4–291
Moskalev, Iu. D., 21.11–394
Synoptic conditions for low temperature
Pack, A. B., 21.7–438
Synoptic conditions for noctilucent clouds
Voĭnov, S. S. et al., 21.10–486
Synoptic conditions for precipitation
Strojie, W. F., 21.2–260
Synoptic conditions for river freeze-up
Efremova, N. D., 21.6–818
Synoptic conditions for snowfall
Clarke, P. C., 21.8–432
Synoptic conditions for snowstorms
Chuter, I. H., 21.8–434
Synoptic conditions for turbulence
Buldovskiĭ, G. S., 21.7–471
Synoptic flight data
Runcanu, T. et al., 21.5–154
Synoptic frost conditions
Sneyers, R., 21.5–483
Synoptic hail conditions
Changnon, S. A., Jr., 21.6–622
Synoptic marine meteorology
U. S. Naval Weather Service, 21.11–59
Synoptic meteorology
Belov, P. N. et al., 21.1–102
Synoptic meteorology textbooks
Zverev, A. S., 21.2–36
Synoptic monsoon conditions
De la Mothe, P. D. et al., 21.7–492
Synoptic observations
Belgium. Institut Royal Météorologique, 21.8–32
Synoptic precipitation climatology
Kisilenko, A. A., 21.6–602
Synoptic processes
Bagrov, N. A., 21.3–443
Fernandez-Partagas, J. J., 21.12–374
Inagamova, S. I. et al., 21.1–382
Kaznacheeva, V. D., 21.1–239
Savitskiĭ, G. B., 21.5–18
Sazonov, B. I., 21.5–264
Synoptic processes over Central Asiatic U.S.S.R.
Kaznacheeva, V. D. et al., 21.2–94
Synoptic processes over West Africa
Diouf, A., 21.12–372
Synoptic rainfall
Campbell, A. P., 21.4–283
Synoptic rainfall conditions
Stancescu, I., 21.5–187
Synoptic river ice conditions
Savchenkova, E. I., 21.4–617
Synoptic snow conditions
Militaru, F. et al., 21.6–614
Synoptic snowfall conditions
Miyazawa, S., 21.6–617
Synoptic temperature analysis
Milea, E. et al., 21.3–556
Synoptic weather
Petrovič, Š., 21.6–667
Synoptic weather types
Bagrov, N. A., 21.3–443
Douchy, P., 21.6–319
Perry, A. H., 21.10–244

T

Taylor column
  Ingersoll, A. P., 21.2–449
  Stone, P. H. et al., 21.1–362
Taylor Glacier
  Black, R. F., 21.1–764
Tea cultivation
  Fordham, R., 21.10–361
  Shaxson, T. F., 21.11–283
Teaching of climatology
  Leighly, J., 21.2–285
Teaching of hydrology
  Auvray, C., 21.6–735
  Espildora, B., 21.7–771
  Laurenson, E. M., 21.7–773
  Morris, W. V., 21.6–739
  Mostertman, L. J., 21.6–740
  Ragan, R. M., 21.6–744
Teaching of meteorology
  Colorado. State Univ., Fort Collins. Dept. of Atmos. Sci., 21.1–61
  Smith, D. L. et al., 21.7–7
Telecommunication networks
  Canada. Meteorological Branch, 21.1–212
Telemetering buoys
  Adams, J. E., 21.3–779
Telemetering meteorological instruments
  Culkowski, W. M., 21.1–193
  Titus, R. W., 21.1–180
Telemetering oceanographic systems
  Dahl, O., 21.10–798
Telemetering systems
  Chemical Engineering [N. Y.], 21.11–103
  Kelley, N. D., 21.12–179
  Knibb, R. R. et al., 21.3–173
Telephotometers
  Siachinvo, V. I. et al., 21.1–177
Teletype distribution manuals
  Canada. Meteorological Branch, 21.1–212
Television cinemaphotography of auroras
  Davis, T. N., 21.10–505
Temperature
  Portman, D. J., 21.6–14
Temperature anomalies
  Banerjee, A. K. et al., 21.4–114
  Bliumina, L. I., 21.9–244
  Girskaia, E. I. et al., 21.4–162; 21.5–476
  Lyall, I. T., 21.4–102
  Masterskikh, M. A., 21.2–189
  Prosekina, G. M. et al., 21.9–245
  Sazonov, B. I. et al., 21.5–405
  Spirina, L. P., 21.2–187
Temperature anomaly forecasting
  Baĭdal, M. Kh., 21.12–447, –448
  Blinnikova, Z. G. et al., 21.3–268
  Bolotinskaia, M. Sh., 21.9–98
  Borisova, L. G., 21.3–560
  Gedeonov, A. D., 21.6–142
  Kryndin, A. N. et al., 21.3–273
  Mertsalova, N. I. et al., 21.9–95
  Popov, B. M., 21.5–477
  Zakharova, N. M., 21.9–200
Temperature–atmospheric circulation relationships
  Andrusenko, K. A., 21.12–446
  Baĭdal, M. Kh., 21.12–448
  Korff, H. C. et al., 21.6–436
  Popov, B. M., 21.5–477
  Sazonov, B. I. et al., 21.5–405
Temperature–atmospheric data relationships
  Baĭdal, M. Kh., 21.12–447
Temperature calculations
  Kaimal, J. C., 21.2–171
  Nekrasova, V. I., 21.2–179
Temperature charts
  Blamont, J. E. et al., 21.7–451
Temperature control
  Johnson, S. R. et al., 21.5–470
Temperature correlations
  Girskaia, E. I., 21.5–476
  Katkova, T. F., 21.11–33
Temperature–cosmic ray instruments effects
  Kriz, G. J., 21.9–240
Temperature cycles
  Gedeonov, A. D., 21.9–30
Temperature cycles, 27-da
  Thomas, G. E. et al., 21.6–457
Temperature data
  Harley, W. S., 21.11–55
  Schuepp, M., 21.3–545
Temperature data, Africa
Temperature data, Pacific Ocean
  California. Univ. Scripp Institution of Oceanog raphy, La Jolla, 21.9 225R
Temperature data analysi
  Hashemi, F., 21.10–312
  Kaimal, J. C., 21.2–171
  Khodakova, V. P., 21.5 471
  Konček, M., 21.7–437
  Oliveira, A. S. de, 21.7–1
  Sapozhnikova, S. A. et al. 21.2–181
  Slaba, N., 21.2–182
Temperature data from satellites
  Panin, B. D., 21.11–17R
Temperature dependence of absorption
  Moskalenko, N. I. et al. 21.7–339
Temperature distribution
  Lee, R., 21.4–157
  Mamontov, N. V. et al. 21.2–173
  Shitera, H., 21.8–313
  Van der Hoeven, P. C. T., 21.8–317
  Yoshino, M., 21.8–328
Temperature during snowfall
  Trifonova, T. S., 21.5–47
Temperature effects on alfalfa
  Smith, D., 21.6–433
Temperature effects on cattle
  Donnelly, J., 21.11–303
  Kamal, T. H., 21.11–469

Temperature effects on clover
Mwakha, E., 21.5–472
Temperature effects on cosmic rays
Briggs, R. M. et al., 21.7–398
Dedenko, L. G., 21.7–402
Kawasaki, S., 21.7–413
Temperature effects on cotton
Wanjura, D. F. et al., 21.6–434
Temperature effects on crop yield
Dmitrenko, V. P., 21.12–568
Temperature effects on grapes
Jones, M. D. et al., 21.9–239
Temperature effects on grass
Aldon, E. F., 21.2–401
Temperature effects on honey production
Hurst, G. W., 21.12–442
Temperature effects on ice
Drouin, M., 21.11–309
Temperature effects on ice growth
Ryan, B. F., 21.12–542
Temperature effects on mortality
Momiyama, M., 21.7–430
Temperature effects on physiology
Makarov, V. I. et al., 21.8–311
Temperature effects on potatoes
Rosca, V., 21.6–432
Temperature effects on radiation instruments
Klevantsova, V. A., 21.8–56
Temperature effects on river ice
Jarocki, W., 21.2–633
Temperature effects on snow
Lorius, C. et al., 21.8–427
Temperature effects on swine
Morrison, S. R. et al., 21.7–521
Weaver, M. E., 21.7–432
Temperature estimates
Kondrat'ev, K. Ia., 21.3–66
Temperature estimates from satellites
Obukhova, M. V., 21.12–443
Smith, W. L., 21.2–220
Temperature estimation
Linacre, E. T., 21.5–440
Temperature estimation from satellite radiation measurements
Burn, J. W. et al., 21.10–27
Van Der Ham, C. J., 21.10–266
Temperature estimation from satellites
Boldyrev, V. G., 21.2–207
Temperature extremes
Bailey, M. H., 21.2–191
Franken, E., 21.5–478
Gens, M. B., 21.10–311
Temperature field, 100-mb
Pagava, S. T., 21.9–249
Temperature field indices
Johnson, K. W. et al., 21.5–412
Temperature fluctuations
Catchpole, A. J. W., 21.6–425
Phelps, G. T. et al., 21.9–243
Temperature forecast verification
Klein, W. H. et al., 21.7–92
Longhetto, A., 21.11–127
Temperature forecasting
Kaznacheeva, V. D., 21.1–239
Khershkovich, K. et al., 21.3–258
Khvalenskiĭ, Iu. A., 21.3–259
Mel'nik, Iu. S., 21.9–88
Rafailova, Kh. Kh., 21.2–61
Soldatkina, A. M., 21.2–178
Temperature forecasting errors
Cordon, J. et al., 21.9–87
Temperature–human body effects
Afanas'eva, R. F. et al., 21.9–241
Temperature–humidity relationships
Anapol'skaia, L. E. et al., 21.6–437
BOMEX, 21.2–771
Phelps, G. T. et al., 21.9–243
Zav'ialova, I. N., 21.4–165
Temperature instruments
Barber, C. R., 21.5–469
Laponov, V. L. et al., 21.5–117
Titus, R. W., 21.1–180
Temperature interpolation
Gorokhova, T. I., 21.9–246
Kowalczyk, S., 21.7–17
Temperature inversion formation
De Zorzi, G., 21.11–233
Pribis, J., 21.2–196
Temperature inversion frequencies
Baker, D. G. et al., 21.4–169
Temperature inversion–wind profile relationships
Miller, A., 21.4–225
Temperature inversions
Pagliari, M., 21.7–448
Vorontsov, P. A., 21.7–468
Temperature measurement aboard ship
Holler, E., 21.6–28
Temperature measurement errors
Franken, E., 21.5–478
Gershenzon, G. S. et al., 21.5–114
Laponov, V. L. et al., 21.5–117
Temperature measurement instruments
Macan, W. A., III, 21.10–72
Temperature measurement techniques
Barber, C. R., 21.5–469

Campbell, G. S., 21.11–86
Hanna, S. R. et al., 21.5–252
Komarovskiĭ, S. V., 21.5–116
McLernon, J. S., 21.4–158
Nepomniashchiĭ, S. I., 21.9–58

Temperature measuring
Buoni, F., 21.11–62

Temperature microoscillations
Landsberg, H. E., 21.12–444

Temperature normals
Schirmer, H., 21.7–667
Williams, G. D. V., 21.6–435

Temperature of glacier streams
Vivian, R., 21.11–102R

Temperature of Jupiter
Aumann, H. H. et al., 21.10–624
Hogan, J. S., 21.6–710
Soboleva, N. S. et al., 21.10–586

Temperature of Venus
Gale, W. et al., 21.9–500

Temperature over glaciers
Marcus, M. G., 21.7–428

Temperature over oceans
Filippov, V. V. et al., 21.2–174
Kaganskiĭ, A. S. et al., 21.2–172
Lavorko, V. S., 21.4–161
Protasov, S. N., 21.7–435
Volkov, Iu. A., 21.7–433

Temperature over water surfaces
Ramzy, J. R., 21.11–308

Temperature periodicities
Drozdov, O. A. et al., 21.4–91
Hlavac, V., 21.6–438
Vorob'eva, E. V., 21.5–393

Temperature plant growth effects
Papadakis, J., 21.3–506

Temperature–precipitation effects
Glazyrin, G. E., 21.11–390

Temperature–precipitation relationships
Budashkina, L. V., 21.12–453

Temperature–pressure measurements
Kokin, G. A. et al., 21.3–49

Temperature probabilities
Slaba, N., 21.2–182

Temperature profile calculations
Brady, W. R., 21.10–26
Fritz, S., 21.6–451
Malkevich, M. S. et al., 21.4–166
Timofeev, Iu. M. et al., 21.8–324
Turchin, V. F. et al., 21.2–199

Temperature profile forecasting
Jarvis, E. C., 21.10–108

Temperature profile measurements
Bazlova, T. I., 21.4–168
Chahine, M. T., 21.6–26
Fox, H. L., 21.6–27
Kaplan, L. D., 21.9–24
Mount, W. D., 21.11–318; 21.12–37

Temperature profiles
Clayton, W. H. et al., 21.6–8
Faust, H., 21.3–311
Hansen, F. V. et al., 21.5–484
Khristov, P. I., 21.2–195
Koprova, L. I., 21.12–457

Temperature pulsation spectra
Panofsky, H. A., 21.12–445

Temperature pulsations
Byzova, N. L. et al., 21.3–550

Temperature–radiation instruments effects
Hoehne, W. E., 21.9–54

Temperature reduction
Karoli, A. R. et al., 21.8–235

Temperature regime
Anapol'skaia, L. E. et al., 21.6–437
Chistiakova, E. A., 21.3–553
Flocchini, G., 21.2–175
Koshenko, A. M., 21.5–594
Marinova, G., 21.10–357
Ol', A. I., 21.4–163
Pershina, R. A., 21.11–3
Procacci, A., 21.8–316
Slaba, N., 21.2–182
Soldatkina, A. M., 21.2–1
Stefanov, S. I., 21.4–164
Tikhomirova, L. V., 21.1
311
Van der Hoeven, P. C. T.
21.8–317

Temperature–salinity changes
Pease, T. E., 21.4–708

Temperature–salinity cha acteristics
Caruthers, J. W., 21.1–73

Temperature–salinity diagrams
Merle, J. et al., 21.7–845

Temperature–salinity relationships
DeMaio, A. et al., 21.2–7
Merle, J. et al., 21.7–845

Temperature scales
Barber, C. R., 21.5–469

Temperature singularities
Milea, E. et al., 21.3–556
Stefanov, S. I., 21.4–164

Temperature–solar activit relationships
Ol', A. I., 21.4–163

Temperature stratification
Bardeau, H., 21.6–449
Budashkina, L. V., 21.12
453
Disconescu, G. I. et al
21.1–348
Lewinska, J., 21.5–474

Temperature–tree growth effects
Godman, R. N., 21.11–304

Temperature trends
Dettwiller, J., 21.6–460
Fukui, E., 21.8–318
Hurley, C. W., Jr., 21.7
436
Lentini, A. D., 21.2–186
Polozova, L. G. et al
21.5–475
Waite, P. J., 21.2–188

Temperature variability
Hill, J. B., 21.2–176
Hlavac, V., 21.6–438
Hurst, G. W., 21.2–185
Sharon, D., 21.2–177

Westbrook, J. H., 21.6–440
Temperature variations
Chiriac, V. et al., 21.3–552
Lee, R., 21.4–157
Neacsa, O. et al., 21.3–548
Temperature waves
Baĭdal, M. Kh., 21.12–447
Temperature–wind velocity relationships
Belinskiĭ, O. N., 21.12–477
Chistiakov, A. D., 21.12–480
Skaib, G., 21.4–159
Temperatures at 700-mb
Hansel, C., 21.4–175
Temperatures in Japan
Miyamoto, M., 21.10–98R
Temperatures in Transcaucasia
Mepistsveridze, E. I., 21.10–109
Temporal
Pallmann, A. J., 21.4–230
Tensiometers
Peck, A. J. et al., 21.5–142
Terminal forecast manuals
U. S. Air Weather Service, 21.3–290; 21.9–100 to 102
Terrain effects on humidity
Beresneva, I. A., 21.7–522
Terrain effects on wind
Bradley, E. F., 21.1–519
Hoecker, W. H., 21.7–514
Peterson, E. W., 21.1–521
Taylor, P. A., 21.1–524
Terrain–radio wave propagation effects
Vikramsingh, R., 21.10–568
Terrain–temperature effects
Nagai, T., 21.7–431
Terrestrial heat glow
Yasui, M. et al., 21.3–799
Terrestrial radiation
Germogenova, T. A. et al., 21.7–346
Grobecker, A. J., 21.12–427
Terrestrial radiation flux
Lebedinskiĭ, A. I. et al., 21.3–516
Terrestrial radiation measurement by satellite
Bachurina, A. A., 21.12–415
Territorial boundaries
Wilcove, R., 21.2–660
Tertiary climatic changes
Addicott, W. O., 21.7–674
Tethered balloon radiosonde
Painter, H. E., 21.10–52
Tetroon flights
Ahrens, D., 21.11–334
Angell, J. K. et al., 21.4–243
Hoecker, W. H., 21.7–514
Thawing effects on frost damage
Yoshida, S., 21.7–446
Thawing periods
Khaĭrullin, K., 21.7–635
Thaws
Kuziemski, J., 21.5–480
Theory of errors
Mikhel', V. M., 21.6–61
Thermal comfort
Auliciems, A., 21.7–688
Thermal conductivity of ice
Klinger, J. et al., 21.8–802
Thermal conductivity of soil
Adamenko, V. N. et al., 21.6–459
Thermal convection
Asai, T. et al., 21.7–233
Calder, K. L., 21.1–539
Faller, A. J. et al., 21.5–531
Gambo, K. et al., 21.3–637
Scorer, R. S., 21.7–259
Van der Borght, R., 21.8–713
Thermal convection currents
Andreev, V. et al., 21.5–527
Thermal instability
Skoda, G., 21.5–369
Thermal models of Mercury
Morrison, D., 21.8–733
Thermal pollution
Carter, H. H., 21.11–766
DeSylva, D. P., 21.2–761
Falkenmark, M. et al., 21.6–796
Hoopes, J. A., 21.4–607
Rosenberg, H. B., 21.11–756
Turoboyski, L., 21.9–663
Thermal pollution calculations
Dingman, S. L. et al., 21.4–505
Thermal properties of lunar surface
Lucas, J. W., 21.5–699
Thermal properties of Mars
Morrison, D. et al., 21.9–515
Thermal radiation
Samuelson, R. E., 21.6–384
Wells, M. B. et al., 21.2–6
Thermal radiation calculation
Idso, S. B. et al., 21.7–347
Niĭlisk, Kh. Iu., 21.1–466
Thermal radiation in the atmosphere
Ashcheulov, S. V., 21.10–5R
Thermal radiation studies
Howell, J. R. et al., 21.1–7
Thermal regime of lakes
Marlatt, W. E. et al., 21.6–468
Panait, I. et al., 21.7–816
Thermal regime of oceans
Strokina, L. A., 21.12–737
Thermal regime of reservoirs
Arai, T., 21.11–740, –741
Epifanov, V. F. et al., 21.6–793
Rossinskiĭ, K. I. et al., 21.6–794
Tomik, T., 21.6–795
Wunderlich, W. O. et al., 21.5–770
Thermal regime of rivers
Brown, G. W., 21.10–754
Diukel', N. G., 21.12–463
Musaelian, S. M., 21.9–57R
Tarverdiev, R. B., 21.12–706
Thermal regime of sea
Shpalkher, A. O. et al., 21.2–214
Thermal regime of upper atmosphere
Shved, C. M., 21.11–26R
Thermal satellite soundings

- Kondrat'ev, K. Ia. et al., 21.6–383

Thermal springs
- Baker, C. H., Jr., 21.4–575

Thermal stress
- Patrof, R. C. et al., 21.6–358

Thermal turbulence
- Bardeau, H., 21.6–449

Thermal water balance research
- Vershinin, A. P. et al., 21.5–435

Thermal wind vortex
- Faller, A. J., 21.7–473

Thermals investigations
- Konrad, T. G., 21.1–543

Thermistor anemometers
- Dobroval'skiĭ, A. F. et al., 21.3–193

Thermistor errors
- Fourrier, J. et al., 21.6–453
- Toscano, W. M., 21.5–119

Thermistor thermometers
- Komarovskiĭ, S. V., 21.5–116

Thermocline
- Ewing, J. A., 21.2–747

Thermocline influences on diffusion
- Saint-Guily, B., 21.4–710

Thermocline models
- Frankignoul, C., 21.4–775

Thermocline observation techniques
- Rossby, T., 21.8–843

Thermocline topography
- Lineĭkin, P. S., 21.2–750

Thermocouple psychrometers
- Sano, Y. et al., 21.5–129
- Schneider, T., 21.7–52
- Hoffman, G. J., et al., 21.3–201

Thermocouple thermometers
- Campbell, G. S., 21.11–86

Thermodynamic models
- Adem, J., 21.5–156

Thermoelectric actinometers
- Klevantsova, V. A. et al., 21.1–169

Thermoelectric heat pumping
- Karoli, A. et al., 21.8–235

Thermoelectric measurement techniques
- Takahashi, T., 21.9–325

Thermoelectric phytopyranometers
- Kozyrev, B. P., 21.1–172

Thermoelectric properties of ice crystals
- Takahashi, T., 21.9–325

Thermoelectric pyranometers
- Kozyrev, B. P., 21.1–172

Thermoelectric radiometers
- Kozyrev, B. P., 21.1–170

Thermohaline circulation
- Latun, V. S., 21.2–760

Thermometer testing
- Sushchinskiĭ, B. L. et al., 21.9–59
- Ukhanova, E. A., 21.9–57

Thermometers
- Dufour, L., 21.5–110

Thermometry
- Macan, W. A., III, 21.10–72

Thermosonde
- Gershenzon, G. S. et al., 21.5–114
- Laponov, V. L. et al., 21.5–117

Thermosphere temperature profile
- Swenson, G. R., 21.3–563

Thermosphere temperature regime
- Shchepkin, L. A., 21.10–189

Thermospheric composition
- Biuro, E. D. et al., 21.6–198
- King, G. A. M., 21.10–138
- Offermann, D. et al., 21.5–318
- Von Zahn, U. et al., 21.3–326
- Weidner, D. K. et al., 21.3–359

Thermospheric densities
- Hinteregger, H. E. et al., 21.7–159
- Marov, M. Ia. et al., 21.5–317
- Moffett, R. J., 21.8–154
- Rishbeth, H., 21.9–148
- Roemer, M., 21.9–149
- Weidner, D. K. et al 21.3–359

Thermospheric diurnal oscillations
- Rishbeth, H., 21.9–148

Thermospheric energetics
- Harris, I. et al., 21.7–157

Thermospheric heating
- Moffett, R. J., 21.8–155
- Rishbeth, H., 21.9–148

Thermospheric models
- Ivanovskiĭ, A. I. et al 21.7–160
- Volland, H., 21.6–205

Thermospheric structure
- Harris, I. et al., 21.7–157
- Roemer, M., 21.9–149

Thermospheric temperature variations
- Poloskov, S. M. et al 21.9–251

Thermospheric temperatures
- Hinteregger, H. E. et al 21.7–159
- Ivanova, I. N. et al., 21.6 458
- Marov, M. Ia. et al., 21.5 317
- Wiedner, D. K. et al 21.3–359

Thermospheric wind calculations
- Vasseur, G., 21.9–267

Thickness pattern forecasting
- Tyner, R. V., 21.11–126

Thickness patterns
- Mosco, F., 21.1–233

Thickness tendency analysis
- Mosco, F., 21.1–233

Thiessen coefficients
- Diskin, M. H., 21.5–61

Thin gas
- Wu, S. T., 21.7–247

Thin-layer chromatographic measurements
- Vylegzhanina, G. F., 21.2 398

Thorium-228 in seawater
- Cherry, R. D., 21.11–762

Three-day forecasts
- Evseev, M. P., 21.7–103

Three-dimensional numerical atmosphere
Rousseau, D. et al., 21.10–147
Three-level forecasting model
Brady, W. R., 21.10–26
Thrust anemometers
McNally, G. J., 21.11–92
Thunder
Bhartendu, —, 21.2–393; 21.8–664
Few, A. A. et al., 21.8–665
Thunder and lightning
Few, A. A., 21.7–730
Thunder effects on cloud droplets
Tempkin, S., 21.1–594
Thunder frequency spectra
Remillard, W. J., 21.8–666
Thunder power spectra
Few, A. A., 21.7–730
Thunderbolts
Cade, C. M. et al., 21.8–624
Thundercloud electrification
Imianitov, I. M. et al., 21.8–616, –655
Kamaldina, I. I., 21.8–617
Scott, J. P., 21.6–677
Takahashi, T., 21.8–614
Thunderclouds
Berson, F. A., 21.12–395
Thunderstorm activity
Babichenko, V. N. et al., 21.10–254
Channun, J. A., 21.10–256
Filippov, A. Kh. et al., 21.7–299
Iliescu, M. et al., 21.3–470
Solov'ev, V. A., 21.7–305
Thunderstorm activity–atmospheric circulation relationships
Pavlova, G. P., 21.7–304
Thunderstorm activity–solar activity relationships
Likhter, Ia. I. et al., 21.7–302
Pavlova, G. P., 21.7–304
Thunderstorm analysis
Achtemeier, G. L., 21.12–392
Fankhauser, J. C., 21.3–475
Herman, J. A., 21.1–413
Thunderstorm centers
Kolokolov, V. P., 21.7–301
Thunderstorm charge distribution
Kasemir, H. W., 21.2–358
Thunderstorm charge generation
Johnson, D. A., 21.8–618
Reiter, R. et al., 21.8–619
Thunderstorm charts
Kolokolov, V. P., 21.8–233
Thunderstorm data
Henderson, T. J., 21.1–414
Thunderstorm days–lightning discharge relationships
Pierce, E. T., 21.12–118
Thunderstorm detection
Semenov, K. A., 21.2–103
Thunderstorm development
Balogh, Z., 21.3–482
Bossolasco, M. et al., 21.7–306
Götz, G., 21.10–258
Newton, C. W., 21.1–590
Storebo, P. B., 21.6–678
Thunderstorm distribution
Boer, J. H. et al., 21.9–205
Liu, Y. H., 21.11–275
Solov'ev, V. A., 21.7–305
Thunderstorm dynamics
Götz, G., 21.10–258
Ninomiya, K., 21.12–399
Phillips, B. B., 21.5–614
Thunderstorm electric field
Schuman, E. L., 21.5–678
Thunderstorm electricity
Freier, G. D., 21.8–615
Thunderstorm electricity generation
Mason, B. J., 21.7–714
Storebö, P. B., 21.6–678
Takahashi, T., 21.5–679
Workman, E. J., 21.7–715
Thunderstorm electricity theories
Drake, J. C., 21.2–357
Reiter, R., 21.11–508
Workman, E. J., 21.6–679
Thunderstorm energy
Ventura, E., 21.8–641
Thunderstorm forecast evaluation
Litynska, Z. et al., 21.6–149
Thunderstorm forecasting
Bel'skaia, N. N., 21.12–153
Cooke, L. T., 21.4–115
Gashina, S. B. et al., 21.4–116
Imianitov, I. M. et al., 21.8–616
Neumann, C. J., 21.3–479
Peskov, B. E., 21.9–207
Taborsky, Z., 21.12–154
Thunderstorm formation
Kamyshanova, V. A., 21.7–307
Peskov, B. E., 21.9–207
Thunderstorm frequencies
Channon, J. A., 21.10–256
Davis, N. E., 21.3–473
Filippov, A. Kh. et al., 21.7–299
Lehmann, G., 21.8–627
Liu, Y. H., 21.11–275
Neumann, C. J., 21.3–479
Thunderstorm hazard to aircraft
Forchtgott, J., 21.8–232
Thunderstorm location
In'kov, B. K., 21.7–300
Makhotkin, L. G. et al., 21.7–303; 21.8–29 to –31
Thunderstorm modification
Gaivoronskiĭ, I. I., 21.12–186
Workman, E. J., 21.7–715
Thunderstorm numerical model
Goldman, J. L. et al., 21.3–477
Thunderstorm observation techniques
Pierce, E. T., 21.10–257
Thunderstorm observations
Facilities for Atmospheric Research [Boulder, Colo.], 21.3–43
Henderson, T. J., 21.1–414
Thunderstorm observing networks
Babichenko, V. N. et al., 21.10–254
Thunderstorm outflow
Ninomiya, K., 21.12–399
Reifel, M. D. et al., 21.3–480

  - Ushijima, T., 21.3–481
- **Thunderstorm–pressure relationships**
  - Roling, H., 21.6–343
- **Thunderstorm precipitation**
  - Davis, M. H. et al., 21.9–293
  - Liu, Y. H., 21.11–275
- **Thunderstorm probabilities**
  - Falls, L. W., 21.3–474
  - Solov'ev, V. A., 21.7–305
  - Williford, W. O. et al., 21.3–465
- **Thunderstorm rainfall**
  - Channon, J. A., 21.10–256
  - Das, P., 21.1–540
  - Sartor, J. D., 21.4–376
- **Thunderstorm research**
  - *Instrumentation Technology* [Pittsburgh, Pa.], 21.9–206
- **Thunderstorm–runoff relationships**
  - Osborn, H. B. et al., 21.4–118
- **Thunderstorm scavenging efficiency**
  - Illinois. State Water Survey, Univ. of Illinois, Urbana, 21.11–276
- **Thunderstorm sferics**
  - In'kov, B. K., 21.7–300
  - Kolokolov, V. P., 21.7–301
- **Thunderstorm structure**
  - Sal'man, E. M. et al., 21.1–122
- **Thunderstorm studies**
  - *Instrumentation Technology* [Pittsburgh, Pa.], 21.9–206
- **Thunderstorm–sunspot relationships**
  - Karapiperis, L. N., 21.5–424
- **Thunderstorm surveys**
  - Henderson, T. J., 21.1–414
- **Thunderstorm synoptic analysis**
  - Iliescu, M. et al., 21.3–478
- **Thunderstorm tracks**
  - Achtemeier, G. L., 21.12–392
  - Owens, J. J., Jr., 21.1–412
- **Thunderstorm turbulence**
  - Burnham, J., 21.7–472
- **Thunderstorms**
  - Goldman, J. L. et al., 21.3–476
  - Sal'man, E. M. et al., 21.3–93
- **Tidal action**
  - Maxwell, W. G. H., 21.10–444
- **Tidal analysis**
  - France. Comité Central d'Océanographie et d'Etude des Côtes, 21.2–798
  - Nguyen, N. T., 21.4–762
- **Tidal analysis techniques**
  - Bohl, D., 21.12–801
  - Sager, G., 21.11–782
  - Shipley, A. M., 21.1–750
- **Tidal atmosphere effects**
  - Geller, M. A., 21.7–703
- **Tidal current analysis**
  - Smith, J. A., 21.2–756
  - Vager, B. G. et al., 21.1–752
- **Tidal current calculations**
  - Mikhaĭlov, Iu. D., 21.12–804
- **Tidal current charts**
  - Germany. Seehydrographischer Dienst, 21.4–769
- **Tidal current–diffusion effects**
  - Higuchi, H., 21.12–760, –761
- **Tidal current forecasting**
  - Hansen, W., 21.2–795
- **Tidal current measurements**
  - Fonarev, G. A. et al., 21.4–768
  - Hughes, P., 21.2–799
  - Marchuk, G. I. et al., 21.2–735
- **Tidal current observations**
  - Bernini, F. et al., 21.9–747
  - Cartwright, D. E., 21.4–767
- **Tidal current velocities**
  - Fonarev, G. A. et al., 21.4–768
  - Vager, B. G. et al., 21.1–752; 21.4–770
- **Tidal currents**
  - Larsonneau, C., 21.2–728
  - Nakamura, S., 21.12–805
  - Nguyen, N. T., 21.4–762
  - U. S. Coast and Geodet Survey, 21.10–837
  - Wyrtki, K., 21.4–725
- **Tidal currents in estuarie**
  - Cannon, G. A., 21.4–790
- **Tidal data, Japan**
  - Japan. Maritime Safet Agency, Tokyo, 21.10 102R
- **Tidal effects**
  - Gubkin, N. M., 21.2–800
  - Smith, F. G. W., 21.2–7
- **Tidal effects on atmosphere**
  - Stokka, E. B., 21.1–312
- **Tidal effects on currents**
  - Smith, J. A., 21.2–756
- **Tidal effects on lake leve**
  - Okabe, J. I., 21.10–769
- **Tidal energy dissipation**
  - Blanton, J., 21.12–806
- **Tidal equations**
  - Chunchuzov, E. P., 21. 763
  - Dul'kin, V. N. et al., 21. 760
- **Tidal estuaries**
  - Blanton, J., 21.12–806
  - Forrester, W. D., 21.2–7
- **Tidal force–ocean effects**
  - Maksimov, I. V. et a 21.4–360
- **Tidal forces**
  - Maksimov, I. V. et a 21.4–360
- **Tidal harmonic constants**
  - France. Comité Centr d'Océanographie et d Etude des Côtes, 21.2 798
- **Tidal nomograms**
  - Bohl, D., 21.12–801
- **Tidal oscillation measurements**
  - Marchuk, G. I. et al., 21.2 735
- **Tidal oscillations**
  - Kraav, V. K., 21.3–797
- **Tidal phenomena**
  - Cummings, W. C., 21.2–7
  - Nguyen, N. T., 21.4–762
- **Tidal regimes**
  - Forrester, W. D., 21.2–7
- **Tidal studies**
  - Stuart, D., 21.2–793
- **Tidal theories**
  - Michelson, I., 21.12–803

Zetler, B. D., 21.12–800
Tidal variations
Bogdanov, K. T. et al., 21.2–796
Filloux, J. H., 21.2–693
Tidal variations, 19 years
Vorob'ev, V. N., 21.11–783
Tidal wave propagation
Bogdanov, K. T. et al., 21.9–746
Chabert d'Hieres, G. et al., 21.2–787
Tidal waves
France. Comité Central d'Océanographie et d'Etude des Côtes, 21.2–729
Wyrtki, K., 21.4–725
Tide analysis
Nguyen, N. T., 21.4–765
Tide calculations
Mikhaĭlov, Iu. D., 21.12–804
Tide forecasting
Hansen, W., 21.2–795
Isozaki, I., 21.4–764
Munk, W. H., 21.11–781
Nguyen, N. T., 21.4–765
Shipley, A. M., 21.1–750
Tide forecasting tables
Trotti, L., 21.4–638
Tide gage networks
Stuart, D., 21.2–793
Tide gages
Filloux, J. H., 21.2–693
Lennon, G. W., 21.1–726
Matthaus, W., 21.12–743
Tide height calculations
Michelson, I., 21.12–803
Tide heights
Uziel, J., 21.4–657
Tide level forecasting
McClelland, J. M., 21.12–802
Tide observation data
France. Comité Central d'Océanographie et d'Etude des Côtes, 21.1–717
Tide tables
U. S. Coast and Geodetic Survey, 21.1–751
Tides in estuaries
Johns, B., 21.4–791
Tides in rivers
Forrester, W. D., 21.2–797
Rohde, H., 21.4–625
Tillage effects on soil
Olson, T. C., 21.12–460
Tills
Porter, S. C., 21.5–17
Tiltmeters
Skalsky, L. et al., 21.2–778
Time series
Ishihara, Y., 21.11–689
Yevjevich, V. et al., 21.5–745
Time series analysis
Dewan, E. M., 21.1–99
Kisiel, C. C., 21.4–509
Saldarriaga, J., 21.11–383
Tiros operational satellite system
Radio Corp. of America, 21.9–50
Tobacco cultivation
Meladze, G. G., 21.12–167
Tsertsvadze, Sh. I. et al., 21.2–328
Topographic effects on winds
Hsueh, Y., 21.7–515
Topside ionosphere
Arendt, P. R. et al., 21.8–159
Brinton, H. C. et al., 21.11–175
Topside ionospheric soundings
Calvert, W., 21.10–156
Chen, C. S., 21.3–372
Colin, L. et al., 21.10–159
Goldberg, R. A., 21.10–165
Hagg, E. L. et al., 21.10–167
Herzberg, L. et al., 21.7–186
Matuura, N. et al., 21.10–174; 21.11–202
Norton, R. B. et al., 21.10–518
Petrie, L. E. et al., 21.10–178
Ramasastry, J. et al., 21.6–238
Taieb, C., 21.10–195
Watt, T. M., 21.9–188
Topside of ionosphere
Arendt, P. R., 21.8–158
Thomas, J. O., 21.12–317
Warren, E. S., 21.10–196
Topside sounder satellites
Franklin, C. A. et al., 21.10–60
Russell, S. et al., 21.10–186
Tornado, April 11, 1965, U.S.A.
Fujita, T. T., 21.9–241R
Tornado, Kent, Washington (Dec. 1969)
Feris, C., 21.12–387
Tornado analysis
Fujita, T. T. et al., 21.5–422
Von Rudloff, H., 21.6–342
Waite, P. J. et al., 21.1–409
Wills, T. G., 21.3–472
Tornado damage
Fujita, T. T. et al., 21.5–422
Garnier, R., 21.12–388
Miller, M. E. et al., 21.7–298
Tornado damage studies
Nelson, J. W., 21.2–100
Tornado data, U.S.A.
Pearson, A. D., 21.9–243R
Tornado development
Fujita, T. T., 21.11–274
Garnier, R., 21.12–388
Spillane, K. T., 21.12–389
Tornado dynamics
Chi, S. W., 21.12–390
Lacaze, J., 21.6–340
Tornado forecasting
Fujita, T. T. et al., 21.5–422
Sadowski, A., 21.8–107
Wills, T. G., 21.3–472
Tornado formation
Laun, W., 21.12–391
Tornado funnels
Wippermann, F. et al., 21.4–112
Tornado identification
Nalivkin, D. V., 21.2–99
Tornado models
Bates, F. C., 21.1–410
Ying, S. J. et al., 21.6–341
Tornado occurrence
Evesson, D. T., 21.12–386
Tornado research projects
Agee, E. M., 21.7–297
Tornado theories
Bates, F. C., 21.1–410
Lacaze, J., 21.6–340
Tornado tracks
Dexter, E. H. V., 21.1–411

Tornado vortex
Franz, H. W., 21.3–635
Szillinsky, A., 21.4–111; 21.11–227
Ying, S. J. et al., 21.6–341
Tornado warning services
Cook, A. K., 21.3–296
Dexter, E. H. V., 21.1–411
Tornado warnings
Sadowski, A., 21.8–107
Waldheuser, H. W. et al., 21.1–242
Tornado Watch Experiment, 1968
Fujita, T. T., 21.11–274
Tornadoes, Ontario, Canada (Apr. 1967)
Lawrynuik, W. D., 21.11–273
Tornadoes, United States
Fujita, T. T. et al., 21.5–422
Total evaporation from reservoirs
Simonov, V. V., 21.6–751
Total unproductive evaporation relationships
Shcherbak, L. V., 21.1–101
Tourist climatology
Heurtier, R., 21.11–453
Tower instrumentation
Church, H. W., 21.1–162
Glass, R. I., Jr., 21.1–163
Holub, R. J., 21.12–83
Ratcliffe, C. A., 21.12–84
Tower observations
Bell, W. C., 21.4–351
Tower–wind field effects
Camp, D. W. et al., 21.10–69
Holub, R. J., 21.12–83
Tower wind measurement
Borisenko, M. M. et al., 21.4–222
Dettwiller, J., 21.1–507
Dolgushin, I. P., 21.2–229
Hathorn, J. W., 21.3–170
Holub, R. J., 21.12–83
McVehil, G. E. et al., 21.3–589
Tracer techniques
Berry, E. X., 21.3–634
Dingle, A. N., 21.12–396
Nielsen, K. W. et al., 21.5–278
Trade-wind region model
Spelman, M. J., 21.10–331
Trajectory fields
Murgatroyd, R. J., 21.1–494
Trans-Pac sail boat race, 1969
Kurtz, E. S., 21.9–108
Transequatorial radio wave propagation
Lynn, K. J. W., 21.7–194
Transient deep circulation
Schwartzlose, R. A. et al., 21.4–696
Transits of Mercury
Hyder, C. L., 21.2–455
Translation list, Canada DRB
Canada. Defence Research Board, 21.9–127R
Transmission
Kondrat'ev, K. Ia., 21.1–450
Transmission function
Armstrong, B. H., 21.1–449
Moskalenko, N. I., 21.7–338
Tannhauser, I. O., 21.4–149
Transmission functions of long wave radiation
Gracius, L. M., 21.1–465
Transmissometer data
Descamps, V. J., 21.2–340
Transmittance of carbon dioxide
Smith, W. L., 21.2–124
Transmittance of water vapor
Smith, W. L., 21.2–124
Transpiration calculations
Szeicz, G. et al., 21.5–569
Transpiration of corn
Waggoner, P. E. et al., 21.6–552
Transpiration of crops
Szeicz, G. et al., 21.5–569
Transpiration of grass
Dagg, M., 21.9–353
Transpiration of plants
Burrows, F. J., 21.9–276
Ehrler, W. L., 21.1–553
Transpiration of trees
Johnson, N. E. et al., 21.6–541
Transpiration–soil moisture relationships
Dagg, M., 21.8–485; 21.9
353
Muturi, S. N., 21.9–357
Szeicz, G. et al., 21.5–56
Trapped alpha particles
Fritz, T. A. et al., 21.8
270
Trapped corpuscular radiation
Troshichev, O. A., 21.6
417
Trapped electron diffusio
Theodoridis, G. C. et al
21.8–299
Trapped electron distribution
Afonina, R. G. et al., 21.2
130
Trapped electron flux
Parks, G. K. et al., 21.7
380
Roberts, C. S., 21.7–382
Trapped electron motion
Falthammar, C. G., 21.3
527
Gurevich, A. V. et al
21.9–223
Pfitzer, K. A. et al., 21.10
287
Roberts, C. S., 21.7–382
Trapped electrons
Theodoridis, G. C. et al
21.8–299
Trapped particle acceleration
Theodoridis, G. C., 21.8
298
Trapped particle distribution
Troshichev, O. A., 21.6
417
Trapped particle energy spectrum
Theodoridis, G. C. et al
21.8–301
Trapped particle flux
Freeman, J. W., Jr. et al
21.7–367
Gurevich, A. V. et al
21.8–273
Ogorodnikov, S. N., 21.7
378
Trapped particle motion
Fojer, J. A., 21.11–291
Gurevich, A. V. et al
21.8–272
Il'in, V. D., 21.8–276

Samokhin, M. V., 21.7–383
Theodoridis, G. C., 21.8–298

Trapped particle stability
Gurevich, A. V. et al., 21.8–273
Lanzerotti, L. J. et al., 21.4–153

Trapped particles
Filz, R. C. et al., 21.7–406
Schardt, A. W. et al., 21.6–414
Van Allen, J. A., 21.3–532

Trapped proton diffusion
Theodoridis, G. C., 21.8–300

Trapped proton flux
Cladis, J. B., 21.11–290
Il'in, V. D., 21.8–276
Willis, D. M., 21.2–157

Trapped protons
Fritz, T. A. et al., 21.8–270
Lavine, J. P., 21.8–284

Trapped radiation zones
Haurwitz, M. W., 21.8–274

Traveling disturbances
Chimonas, G., 21.7–178; 21.9–152
Davis, M. J. et al., 21.8–171
Elkins, T. J. et al., 21.9–157
Flock, W. L. et al., 21.9–162
Gersham, B. N. et al., 21.8–176
Surtees, W. J., 21.9–183
Wickersham, A. F., Jr., 21.10–200

Tree ecology
Van Hylckama, T. E. A., 21.2–330

Tree growth–precipitation relationships
Glock, W. S. et al., 21.1–55

Tree phenology
Villeneuve, G. O., 21.12–58

Tree ring studies
Schove, D. J., 21.9–268

Tributary gaging station records
Shestakova, R. A., 21.12–157

Triggered lightning
Newman, M. M., 21.10–497

Tritium distribution in water
Katsurayama, K., 21.6–750

Tritium fallout
Taylor, C. B., 21.3–407

Tritium in firn layers
Ambach, W. et al., 21.8–424

Tritium in hydrologic research
Payne, B. R. et al., 21.8–428

Tritium in ocean water
Ostlund, H. C., 21.2–719

Tritium in precipitation
Ambach, W. et al., 21.8–424
Payne, B. R. et al., 21.8–428

Tritium measurements
Florkowski, T. et al., 21.4–589

Tritium tracers
Brown, R. M. et al., 21.8–341
Machta, L., 21.4–258

Tritium tracing of groundwater
Wurzel, P. et al., 21.4–574

Tropical circulation
Brahmananda Rao, V., 21.10–237
Charney, J. G., 21.4–90
Freeman, J. C., 21.7–263
Holton, J. R., 21.1–389
Hubert, L. F. et al., 21.1–381
Janota, P., 21.6–294
Kidson, J. W. et al., 21.1–383
Manabe, S., 21.11–251
Oliver, V. J. et al., 21.5–391
Sadokov, V. P., 21.7–465

Tropical climatology
Brier, G. W. et al., 21.2–338

Tropical cloudiness
Bjerknes, J. et al., 21.6–589

Tropical cyclogenesis studies
Bernet, G., 21.12–380

Tropical cyclone
Neumann, C. J., 21.10–83R

Tropical cyclone "Belinda" (1967)
Mayl, S. D., 21.7–295

Tropical cyclone "Colleen" (1969)
Strochnetter, F. G., 21.10–250

Tropical cyclone analysis
Neumann, C. J., 21.3–464

Tropical cyclone climatology
Cuming, M. J., 21.4–95
Neumann, C. J., 21.3–464

Tropical cyclone damage
United Nations Economic Commission for Asia and the Far East, 21.2–97

Tropical cyclone development
Cox, J. L. et al., 21.6–339
Johnson, R. P., 21.3–466
Lipps, F. B., 21.11–270
Pichler, H. et al., 21.6–327
Rosenthal, S. L., 21.3–470
Sadler, J. C. et al., 21.10–111
Saito, N., 21.7–277
Yamasaki, M., 21.5–417

Tropical cyclone distribution
Brunt, A. T., 21.6–331

Tropical cyclone dynamics
Ramage, C. S., 21.12–385
Rosenthal, S. L., 21.11–271

Tropical cyclone forecasting
Mayl, S. D., 21.7–295

Tropical cyclone history
DeAngelis, R. M., 21.6–333

Tropical cyclone models
Ooyama, K., 21.3–467
Pearce, R. P., 21.3–468
Ramage, C. S., 21.12–385
Rosenthal, S. L., 21.3–271, –470
Yamasaki, M., 21.5–417

Tropical cyclone pairs
Cox, J. et al., 21.6–339

Tropical cyclone rainfall
Carter, H. S., 21.11–268

Tropical cyclone steering
Rao, G. V., 21.11–272

Tropical cyclone structure
Yamasaki, M., 21.5–417

Tropical cyclone studies
  DeAngelis, R. M., 21.6–333
Tropical cyclone tracks
  Strochnetter, F. G., 21.10–250
Tropical cyclone wind speeds
  Hops, J. R. et al., 21.7–292
Tropical cyclones
  Australia. Bureau of Meteorology, 21.3–456
  Brand, S., 21.11–267
  DeAngelis, R. M., 21.6–332
  Hubert, L. F. et al., 21.3–462
  Mukherjee, A. K. et al., 21.7–296
Tropical cyclones, Australia
  Henning, D., 21.1–404
Tropical cyclones, Eastern North Pacific (1969)
  Gustafson, A. F., 21.10–246
  U. S. Fleet Weather Central/Joint Typhoon Warning Center, Guam, 21.10–249
Tropical cyclones, Georgia
  Carter, H. S., 21.11–268
Tropical cyclones, Southwest Pacific
  Beliaev, Iu. I. et al., 21.1–401
Tropical disturbance analysis
  Shukla, J., 21.7–290
Tropical disturbances
  Carlson, T. N., 21.12–384
  Cuming, M. J., 21.4–95
  Freeman, J. C., 21.7–263
  Riehl, H., 21.3–636
  Simpson, R. H., 21.4–106
Tropical easterly current
  Nitta, T. et al., 21.4–97
Tropical easterly jet
  Koteswaram, P., 21.10–207
Tropical environment
  Moss, R. P., 21.12–570
Tropical forests
  Clayton, W. H. et al., 21.6–7
Tropical meteorology
  Chronic, H., 21.5–4
Tropical meteorology research
  Zipser, E. J., 21.7–10
Tropical Pacific
  Doberitz, R., 21.2–208
Tropical radiation effects
  Vonder Haar, T. H. et al., 21.1–462
Tropical rainfall distribution
  Jackson, K. J., 21.5–617
Tropical regions
  Rual, P., 21.4–695
  Rudloff, W., 21.5–498
Tropical storm dynamics
  Anthes, R. A., 21.11–266
Tropical storm movements
  Datta, R. K., 21.3–225
Tropical storm probability
  Chase, P. P., 21.4–105
Tropical synoptic models
  Simpson, R. H., 21.7–99
Tropical tropopause
  Ramanadham, R. et al., 21.6–197
Tropical tropospheric waves
  Wallace, J. M. et al., 21.3–439
Tropical wave storms
  Wallace, J. M., 21.6–317
Tropical weather analysis
  Mancuso, R. L. et al., 21.5–153
Tropical weather forecasting
  Mancuso, R. L. et al., 21.3–69
  Koteswaram, P., 21.10–107
  Mancuso, R. L. et al., 21.5–153
  Viezee, W. et al., 21.2–38
Tropopause climatology
  Ovsiannikov, V. V., 21.11–168
Tropopause correlation coefficients
  Nudel'man, L. A., 21.1–316
Tropopause–hailstorm relationships
  Stanchev, K., 21.1–636
Tropopause height
  Makhover, Z. M. et al., 21.2–60
Tropopause height–temperature correlations
  Hirling, G., 21.6–196
Tropopause height variations
  Aleksandrov, A. S., 21.4–49
  Fedorov, Iu. K., 21.12–275
  Nudel'man, L. A., 21.12–276
  Ramanadham, R. et al., 21.6–197
  Stel'makh, F. N., 21.9–144
Tropopause–jet stream relationships
  Budziszewska, E., 21.4–50
Tropopause pressure
  Makhover, Z. M. et al., 21.2–60
Tropopause structure
  Danielsen, E., 21.12–285
Tropopause temperature variations
  Aleksandrov, A. S., 21.4–49
  Nudel'man, L. A., 21.12–276
  Stel'makh, F. N., 21.9–144
Tropopause temperatures
  Federov, Iu. K., 21.12–275
  Makhover, Z. M. et al., 21.2–60
Troposphere
  Ginzburg, A. S., 21.12–418
Troposphere–stratosphere interaction
  Faust, H., 21.6–193
  Geokhlarian, T. Kh., 21.3–345
Tropospheric circulation
  Bayer, K. et al., 21.6–290
  Loginov, V. F., 21.5–390
  Reiter, E., 21.8–225
  Sazonov, B. I., 21.7–264
Tropospheric clouds
  Ponomarenko, I. N., 21.4–121
Tropospheric disturbances
  Reiter, E., 21.8–225
Tropospheric dust clouds
  Elterman, L., 21.3–344
Tropospheric heat budget
  Laitinen, E., 21.4–171
Tropospheric humidity
  Crutcher, H. L., 21.8–325
Tropospheric jet stream
  Budziszewska, E., 21.7–509
  Ivanov, V. Kh., 21.10–334
  Reiter, E., 21.8–225

Tropospheric layers
Ashwell, G. E. et al., 21.4–45
Tropospheric profiles
DeZorzi, G., 21.11–233
Tropospheric radio wave diffraction
Hartmann, G., 21.1–313
Tropospheric radio wave propagation
Arsenin, V. Ia. et al., 21.3–343
Atlas, D., 21.2–59
Birkemeier, W. P. et al., 21.9–133
Boithias, L., 21.9–191
Burrows, W. G., 21.9–134
Dougherty, H. T., 21.6–192
Falcone, V. J. et al., 21.10–570
Fehlhaber, L., 21.9–136
Hall, M. P. M., 21.9–139
Gerks, I. H., 21.3–391
Kiselev, O. N. et al., 21.3–394
McQuate, P. L. et al., 21.5–307
Matthews, P. A. et al., 21.9–141
Post, R. E. et al., 21.9–142
Vogler, L. E., 21.7–155
Tropospheric radio wave propagation over water
Rider, G. C., 21.9–143
Tropospheric radio wave propagation research
Anderson, E. W., 21.9–129
Barrow, B. B., 21.9–131
Bell, C. P., 21.9–132
Tropospheric radio wave propagation symposia
Conference on Tropospheric Wave Propagation, London, 1968, 21.9–135
Tropospheric radio wave reflection
Arsenin, V. Ia. et al., 21.3–343
Matthews, P. A. et al., 21.9–141
Tropospheric radio waves
Cox, D. C., 21.4–46
Tropospheric refractive index
Barletti, R., 21.1–333
Börresen, J. A. et al., 21.10–206
Gjessing, Dag T. et al., 21.10–208
Hall, M. P. M. et al., 21.10–209
Hopfield, H. S., 21.12–71
Richter, J. H., 21.10–85
Tropospheric refractivity profiles
Hopfield, H. S., 21.3–346
Tropospheric scatter propagation
Anderson, E. W., 21.9–129
Barrow, B. B., 21.9–131
Boithias, L., 21.9–191
Gough, M. W., 21.9–137
Grosskopf, J., 21.9–138
Larsen, R., 21.9–140
Tropospheric scattering
Atlas, D., 21.2–59; 21.3–68
Austin, M. E., 21.9–130
Beard, C. I. et al., 21.6–191
Birkemeier, W. P. et al., 21.9–133; 21.11–214
Fehlhaber, L., 21.9–136
Tropospheric soundings
Bardeau, H., 21.1–192
Gjessing, D. T., 21.4–47
Tropospheric structure
Harris, B. E. et al., 21.5–306
Tropospheric temperatures
Crutcher, H. L., 21.8–325
Tropospheric waves
Nitta, T., 21.11–248
Tropospheric wind speed estimation
Pershina, R. A., 21.11–349
Tropospheric winds
Chistiakov, A. D., 21.12–480
Trough movement
Lyall, I. T., 21.4–102
Trough structure
Hill, H. W., 21.5–426
Tsunami analysis
Aida, I., 21.2–788
Kajiura, K. et al., 21.2–790
Tsunami forecasting
Adams, W. M., 21.4–759
Tsunami generation
Hatori, T., 21.1–749
Tsunami propagation
Braddock, R. D., 21.2–789
Fedosenko, V. S., 21.12–796
Grigorash, Z. K., 21.12–797
Hatori, T., 21.1–749
Tsunami warning
Adams, W. M., 21.4–759
Tsunami warning system
U. S. Coast and Geodetic Survey, Rockville, 21.12–798
Tsunamis
Augulis, R. P., 21.12–795
Grivel, F., 21.2–698
Tsunamis, Hawaii
Pararas-Carayannis, G., 21.9–192R
Tsushima current
Ogura, Y. et al., 21.6–847
Tuberculosis
Gartmann, J., 21.8–541
Tundra
Terjung, W. H., 21.11–223
Tundra microclimates
Romanova, E. N., 21.6–650
Tung trees
Meladze, G. G., 21.12–167
Tunguska Meteorite, 1908
Schroder, W., 21.11–485
Zotkin, I. T., 21.9–419
Turbidity
Georgievskiĭ, Iu. S., 21.4–374
Turbidity coefficients
Mani, A., 21.11–492
Turbidity current flows
Komar, P. D., 21.2–727
Turbidity effects
Chernov, V. M., 21.6–676
Turbidity effects on radiation
Bidasio, D., 21.2–114
Turbidity measurements
Volz, F. E., 21.11–493
Turbidity of sea water
Pak, H. et al., 21.5–797
Turbidity parameters
Timofeeva, V. A., 21.4–373
Turbidity variations
Flowers, E. C. et al., 21.5–677
Vinokurova, D. V., 21.2–125
Volz, F. E., 21.11–493
Turbulence
Monin, A. S., 21.7–256

Turbulence above crops
Galadzhiĭ, N. M., 21.12–468
Turbulence–aircraft effects
Forchtgott, J., 21.6–527
Turbulence–atmospheric optics effects
Laussade, J. P. et al., 21.4–365
Turbulence calculations
Laĭkhtman, D. L. et al., 21.2–225
Ruzin, M. I., 21.7–258
Turbulence characteristics
Shinn, J. H., 2.1–479
Turbulence coefficient calculations
Shnaĭdman, V. A., 21.3–596
Tkachenko, A. V., 21.10–324
Turbulence conferences
Morkovin, M. V. et al., 21.9–195
Tsvang, L. R., 21.3–587
Turbulence correlation
Kirschner, H. J., 21.4–193
Van Atta, C. W., 21.11–243
Turbulence data analysis
Pao, Y. H. et al., 21.4–195
Turbulence development
Scotti, R. S. et al., 21.10–233
Turbulence dissipation
Neumann, J., 21.5–388
Turbulence effects
Bean, B. R., 21.9–190
Turbulence effects on aircraft
Buldovskiĭ, G. S., 21.7–471
Grantham, W. D., 21.7–474
Turbulence effects on laser beams
Gel'fer, E. I. et al., 21.10–573
Hodara, H., 21.7–467
Khmelevtsov, S. S., 21.12–467
Mordukhovich, M. I., 21.10–574
S"edin, V. Ia. et al., 21.10–576
Turbulence effects on light propagation
Hodara, H., 21.7–467
Turbulence effects on refractive index
Kaimal, J. C., 21.10–228
Woods, J. D., 21.10–234
Turbulence encountered by airplanes
Newburg, E., 21.1–117
Turbulence equations
Blanchet, J., 21.6–273
Graff, P., 21.3–426
Monin, A. S., 21.7–256
Tanaka, H., 21.6–288
Turbulence fluctuations
Woods, J. D., 21.10–234
Turbulence forecasting
Forchtgott, J., 21.6–527
Turbulence generators
Counihan, J., 21.1–483
Turbulence in clouds
Gorelik, A. G. et al., 21.1–114
U. S. Air Force. Cambridge Research Labs., 21.7–477
Voĭt, F. Ia. et al., 21.10–377
Turbulence in estuaries
Wiseman, W. J., 21.4–794
Turbulence in frictional layers
Gorelik, A. G. et al., 21.1–113
Turbulence in plant canopies
Perrier, A., 21.3–592
Turbulence in precipitation
Gorelik, A. G. et al., 21.1–114
Mel'nichuk, Iu. V., 21.1–115
Turbulence in reservoirs
Lee, C. Y., 21.6–509
Turbulence in river flow
Grinval'd, D. I. et al., 21.10–761
Ishihara, Y., 21.11–735
Yokosi, S., 21.11–737
Turbulence in the stratosphere
Buldovskiĭ, G. S., 21.7–471
Turbulence in tidal flow
Johns, B., 21.4–791
Vager, B. G. et al., 21.4–770
Turbulence in upper atmosphere
Barat, J. et al., 21.6–480
Pinua, N. Z., 21.2–227
Turbulence in wind waves
Lee, C. Y., 21.6–509
Turbulence in woodland
Sadeh, W. Z. et al., 21.10–318
Turbulence instrumentation
Biggs, W. G., 21.1–482
Tsvang, L. R., 21.3–587
Turbulence–light propagation effects
Gracheva, M. E., 21.11–487
Kon, A. I., 21.11–488, –489
Turbulence measurement techniques
Fried, D. L., 21.6–9
Mel'nichuk, Iu. V., 21.1–115
Merceret, F. J., Jr., 21.8–60
Montgomery, A. J., 21.6–13
Roth, R., 21.6–478
Tsvang, L. R., 21.3–587
Turbulence measurements
Businger, J. A. et al., 21.5–121
Turbulence models
Deissler, R. G., 21.9–193
Lucke, O., 21.6–285
Roth, R., 21.9–197
Turbulence near the ground
Biggs, W. G., 21.1–482
Turbulence observation techniques
Carlson, A. V. et al., 21.1–480
Gray, D. A. et al., 21.10–320
Paltridge, G. W., 21.1–485
Strohbehn, J. W., 21.10–322
Turbulence over forests
Sadeh, W. Z. et al., 21.10–318
Turbulence over mountains
Forchtgott, J., 21.6–527
Turbulence over the sea
Adelfang, S. I., 21.2–226

Byshev, V. I. et al., 21.4–196

Turbulence parameters
Kraichnan, R. H., 21.11–236

Turbulence–radio propagation effects
Birkemeier, W. P. et al., 21.9–133

Turbulence–radio wave propagation effects
Gusev, V. D. et al., 21.10–572

Turbulence research
Grasnick, K. H., 21.7–226
Taylor, G. I., 21.12–364

Turbulence scale
Fortak, H., 21.11–235

Turbulence spectra
Adelfang, S. I., 21.2–226
Borkowski, J., 21.10–225
Busch, N. E., 21.1–366
Dutton, J. A. et al., 21.10–227
Elderkin, C. E., 21.1–484
Fichtl, G. H. et al., 21.6–479; 21.11–234
Lin, J. T. et al., 21.10–230
Meecham, W. C., 21.11–238
Myrup, O. O., 21.4–200
Neumann, J., 21.5–388
Panchev, S., 21.8–219
Pao, Y. H., 21.11–229
Pinus, N. Z., 21.2–227
Roth, R., 21.5–504
Strohbehn, J. W., 21.10–322

Turbulence-stability dependence
Kozhevnikov, V. P., 21.7–532

Turbulence structure
Dutton, J. A. et al., 21.10–227
Townsend, A. A., 21.11–242

Turbulence symposia
Symposium on Turbulence, Seattle, June, 1969, 21.5–389

Turbulence textbooks
Vinnichenko, N. K., 21.12–475

Turbulence theories
Frank-Kamenetskiĭ, D. A., 21.7–251
Graff, P., 21.3–426
Lucke, O. et al., 21.1–370

Turbulent boundary layer
Chi, S. W., 21.12–390
Hopkins, E. J., 21.7–732
Laufer, J., 21.9–194
Morkovin, M. V. et al., 21.9–195
U. S. Langley Research Center, 21.5–688
Walz, A., 21.5–503

Turbulent cloud layer
Lilly, D. K., 21.1–350

Turbulent diffusion
Klug, W., 21.1–368
Lucke, O. et al., 21.3–427
Preobrazhenskiĭ, L. Iu., 21.4–206
Slade, D. H., 21.3–590

Turbulent diffusion analysis
Fiedler, F., 21.9–259
Hesek, F., 21.5–384
Panofsky, H. A., 21.1–495

Turbulent diffusion coefficient determination
Meroney, R. N. et al., 21.1–371
Mészáros, A., 21.5–271

Turbulent diffusion–evaporation relationships
Brutsaert, W. et al., 21.5–555

Turbulent diffusion experiments
Chaudhry, F. H. et al., 21.9–258
Mery, P., 21.6–286

Turbulent diffusion in oceans
Ozmidov, R. V. et al., 21.9–709

Turbulent diffusion in the sea
Schuert, E. A., 21.5–796

Turbulent diffusion investigations
Church, H. W., 21.1–162
Geneste, L. et al., 21.6–284

Turbulent diffusion measurements
Stanhill, G., 21.3–196

Turbulent diffusion models
Levin, A. V., 21.10–229

Turbulent diffusion theories
Levin, A. V., 21.10–229

Turbulent diffusivity measurement
Ackerman, B., 21.1–183

Turbulent dispersion of particles
Levin, A. V., 21.10–229
Luna, R. E. et al., 21.10–329

Turbulent energy
Tanaka, H., 21.6–288

Turbulent energy balance measurement
Utina, Z. M., 21.7–231

Turbulent energy dissipation
Trout, D., 21.4–201

Turbulent energy spectra
Borkowski, J., 21.5–383
Justus, C. G., 21.5–385

Turbulent exchange coefficient calculations
Godev, N., 21.8–332

Turbulent exchange coefficients
Fedorov, S. F., 21.7–483

Turbulent exchange in lower atmosphere
Dunskiĭ, V. F., 21.9–24R
Vorontsov, P. A., 21.9–96R

Turbulent exchange measurements
Patrichi, F. et al., 21.4–205
Romanov, E. V., 21.9–61

Turbulent flow
Busse, F. H., 21.11–231
Cermak, J. E., 21.11–232
Deissler, R. G., 21.9–193
Hallett, J., 21.7–227

Turbulent flow of liquids investigation
Moore, M. J., 21.11–767

Turbulent flow theories
Frank-Kamenetskiĭ, D. A., 21.7–251

Turbulent fluctuations
Panofsky, H. A. et al., 21.10–232

Turbulent fluctuations measurement techniques
Panofsky, H. A. et al., 21.10–232

Turbulent flux computer analysis
Shelkovnikov, N. K., 21.4–697
Turbulent heat flow
Ruzin, M. I., 21.3–425
Turbulent heat flow determination
Miara, K., 21.7–255
Turbulent heat flows
Simonov, V. V., 21.6–751
Turbulent heat flux
Bernhardt, K., 21.12–405
Kikharets, V. P. et al., 21.7–253
Kirwan, A. D., Jr., 21.6–487
Zubkovskiĭ, S. L. et al., 21.4–211
Turbulent heat flux determination
Businger, J. A. et al., 21.1–489
Turbulent heat transfer
Laĭkhtman, D. L. et al., 21.7–254
Turbulent heat transfer in water
Borisov, E. V., 21.11–768
Turbulent mixing
Kirwan, A. D., Jr., 21.6–487
Townsend, A. A., 21.11–242
Turbulent moisture flux
Elagina, L. G. et al., 21.10–20
Turbulent moisture flux measurements
Elagina, L. G. et al., 21.10–20
Turbulent momentum diffusion
Walk, O. G., 21.3–599
Turbulent momentum flow
Kirwan, A. D., Jr., 21.6–487
Zubkovskiĭ, S. L. et al., 21.4–211
Turbulent momentum over ocean
Bortkovskiĭ, R. S. et al., 21.7–839
Turbulent momentum transfer
Laĭkhtman, D. L. et al., 21.7–254
Turbulent motion
Lucke, O. et al., 21.10–263
Scoggins, J. R., 21.11–230
Turbulent ocean inhomogeneities
Shelkovnikov, N. K., 21.4–697
Turbulent transfer
Gracheva, V. P., 21.9–38R
Guyot, G., 21.6–485
Lucke, O. et al., 21.3–427
Turbulent transfer of heat
Pinus, N. Z., 21.8–333
Turbulent transfer of moisture
Elagina, L. G., 21.8–347
Turbulent transfer of momentum
Busse, F. H., 21.11–231
Pinus, N. Z., 21.8–333
Turbulent transfer of water vapor
Coantic, M., 21.11–95
Turbulent transfer theories
Lettau, H., 21.1–369
Lucke, O. et al., 21.1–370
Turbulent transport above ground
Regener, V. H., 21.7–487
Turbulent transport processes
Van der Hoven, I. (ed.), 21.8–334
Twilight airglow
Harrison, A. W., 21.7–351
Kvifte, G., 21.7–705
Nasyrov, G. A., 21.11–288
Torr, M. R. et al., 21.8–254
Twilight emission lines
Gadsden, M., 21.10–480
Kvifte, G., 21.7–705
Twilight helium remission
Harrison, A. W., 21.7–351
Twilight intensities
Ramanathan, K. R. et al., 21.5–451
Volz, F. E., 21.7–706
Twilight intensity calculation
Smoktiĭ, O. I., 21.9–417
Twilight intensity variations
Shah, G. M., 21.10–481
Twilight investigations
Link, F., 21.8–578
Twilight observations
Kvifte, G., 21.7–705
Twilight phenomena
Link, F., 21.9–146
Zotkin, I. T., 21.9–419
Twilight polarization
Neuzil, L., 21.9–421
Twilight polarization–airglow relationships
Dietze, G., 21.8–246
Twilight radiation
Graham, D. A., 21.11–494
Twilight sky brightness
Volz, F. E., 21.12–270
Twilight sky brightness measurements
Zacharov, I., 21.9–418
Twilight sky scattering
Shah, G. M., 21.11–495
Twilight sodium emission
Gadsden, M., 21.8–577
Two-layer fluids
Hallett, J., 21.7–227
Type V radio emission
Friedman, M., 21.11–629
Typhoon analysis
Ishizaki, H., 21.12–382
Matsumoto, S., 21.5–418
Wada, M., 21.6–336
Typhoon damage
Ishizaki, H., 21.12–382
Mitsuta, Y. et al., 21.10–248
United Nations Economic Commission for Asia and the Far East, 21.2–97
Typhoon dissipation
Wada, M., 21.6–336
Typhoon effects on waves
Kikuchi, S., 21.9–743
Typhoon forecasting
Renard, R. J., 21.3–242
Typhoon mechanics
Wada, M., 21.6–336
Typhoon rainfall
Matsumoto, S., 21.5–418
Typhoon rainfall distribution
Hamuro, M. et al., 21.6–337
Typhoon "Shirley" (1965)
Wright, R., 21.4–185
Typhoon swell
Kikuchi, S., 21.9–743
Typhoon temperature
Matsumoto, S., 21.5–418

Typhoon "Vera" (1959)
Hamuro, M. et al., 21.6–337
Typhoon warnings
U. S. Fleet Weather Central/Joint Typhoon Warning Center, Guam, 21.10–249
Typhoon–water temperature effects
Wright, R., 21.4–185
Typhoon winds
Horiuchi, T., 21.10–79R
Mitsuta, Y. et al., 21.10–248
Typhoons, Northwest Pacific Ocean (1968)
DeAngelis, R. M., 21.1–402
Typhoons, Western Pacific
DeAngelis, R. M., 21.9–189R

U

UHF boundary electrodynamics
Kulikov, E. L., 21.4–430
UHF radio wave propagation
Bell, C. P., 21.9–132
Gerks, I. H., 21.3–391
Hause, L. G. et al., 21.10–566
Kimmett, F. G. et al., 21.10–567
ULF emissions
Kleĭmenova, N. C. et al., 21.2–384
UNIU of Miami
Miami. Univ. Rosenstiel School of Marine and Atmospheric Sciences, Miami, 21.9–120R
USDA hydrologic research
Glymph, L. M. et al., 21.10–680
Ultralong atmospheric waves
Kurbatkin, G. P., 21.6–308; 21.11–256
Ultralow frequency emissions
Vigneron, J. et al., 21.5–734
Ultrashort radio wave propagation
Strauch, E., 21.7–217
Triskova, L., 21.1–677
Ultraviolet astronomy
Goldberg, L., 21.2–394
Ultraviolet radiation effects
Hirao, K. et al., 21.8–180
Ultraviolet radiation instruments
Nader, J. S. et al., 21.5–108
Pitts, J. N., Jr. et al., 21.4–23
Ultraviolet radiation intensities
Coulson, K. L., 21.12–414
Lotmar, R. et al., 21.7–48
Reiter, R., 21.7–323
Ultraviolet radiation–ionosphere effects
Rath, G., 21.7–200
Ultraviolet radiation measurements
Lotmar, R. et al., 21.7–48
Ultraviolet spectra
Barth, C. A. et al., 21.10–612
Umbral chromospheric flashes
Wittmann, A., 21.2–494
Umkehr effect evaluation
DeLuisi, J. J., 21.1–455
Umkehr observations
Dütsch, H. U. et al., 21.7–166, –168
Ramanathan, K. R. et al., 21.5–451
Under-ice studies
Environmental Science and Technology [Washington, D. C.], 21.2–527
Underground water movements
Cadere, R. et al., 21.4–535
Underground water recharge
Drozd, V. V., 21.4–582
Underground water recharge of rivers
Chernogaeva, G. M., 21.12–551
Drozd, V. V., 21.10–744
Karasik, G. Ia., 21.12–552
Underground water regime
L'vova, E. V., 21.11–701
Nekliudov, G. D., 21.11–703
Rakitina, A. P., 21.11–704
Underground water resources
Falovskiĭ, A. A., 21.11–699
Murcía, A., 21.6–774
Trufas, V., 21.4–548
Underground water–river discharge effects
Drozd, N. I. et al., 21.4–581
Underwater instrument packages
Jaeger, J. E., 21.2–689
Underwater irradiance meters
Smith, R. C., 21.5–787
Underwater light intensity meters
Askefors, H. et al., 21.5–786
Underwater light measurements
Austin, R. W., 21.12–744
Kampa, E. M., 21.12–745
Underwater photometers
Plunkett, R. D., 21.9–674
Underwater radiation measurements
Barros, F. E. S., 21.11–84
Underwater sound sources
Brekhovskikh, L. M. et al., 21.4–662
Underwater stations
Stewart, H. B., Jr., 21.2–687
Unit hydrograph
Chekushkina, T. A., 21.12–668, –703
Unit hydrograph calculation
Laurenson, E. M. et al., 21.5–750
Soczynska, U., 21.8–783
Wirth, P. et al., 21.9–588
Unit hydrograph limitations
Chow, V. T., 21.11–688
Unit hydrograph use
Fomenko, Ia. A., 21.12–670
Unit hydrographs
Bukovszky, G. et al., 21.9–307

  Gupta, S. N. et al., 21.9–584
  Le Gourières, D., 21.9–586
  Picandet, P. E., 21.6–754
  Rodda, J. C., 21.1–773
  Scully, D. R. et al., 21.5–624
  Sokolovskiĭ, D. L., 21.7–781

U. S. Air Force. Cambridge Research Laboratories
  U. S. Air Force. Cambridge Res. Labs., 21.2–5

U. S. Air Force research program, 1968
  U. S. Air Force. Office of Aerospace Research, 21.9–123R

U. S. Air Force scientific research bibliographies
  U. S. Air Force, Cambridge Res. Labs., Bedford, Mass., 21.1–49

U. S. Air Weather Service
  Perry, J. S., 21.1–72

U. S. Antarctic research
  Davis, W. O., 21.3–11
  Polar Record [Cambridge, Eng.], 21.2–684

U. S. Antarctic research programs
  Roberts, C. L., Jr., 21.5–76

U. S. Army Coastal Engineering Research Center
  Snoke, M. D., 21.4–783

U. S. Army meteorological research
  U. S. Army Electronics Command. Atmospheric Sciences Office, White Sands Missile Range, N. M., 21.3–31

U. S. Army Research, bibliography
  U. S. Army Natick Labs., Natick, Mass., 21.9–135R

U. S./Canadian satellite, Alouette-1
  Arendt, P. R. et al., 21.8–159
  Bud'ko, N. I., 21.5–339
  Fatkullin, M. N., 21.5–345; 21.8–174
  Goldberg, R. A., 21.10–165
  Hagg, E. L. et al., 21.10–167
  Horita, R. E. et al., 21.6–227
  Watt, T. M., 21.9–188

U. S./Canadian satellite, Alouette-2
  Brace, L. H., 21.11–172
  Chen, C. S., 21.3–372
  Colin, L. et al., 21.10–160
  Donley, J. L. et al., 21.10–162
  Hagg, E. L. et al., 21.10–167
  Holtet, J. et al., 21.10–535
  Mahajan, K. K. et al., 21.4–172
  Matuura, N. et al., 21.10–174, –175; 21.11–202
  Muldrew, D. B. et al., 21.10–176
  Ramasastry, J. et al., 21.10–388
  Wrenn, G. L. et al., 21.10–201

U. S./Canadian satellites, Alouette
  Norton, R. B. et al., 21.10–518
  Petrie, L. E. et al., 21.10–178

U. S./Canadian satellites, Alouette-4
  Franklin, C. A. et al., 21.10–60

U. S. climatic data
  Weather Trends, Inc., 21.3–276

U. S. Coast and Geodetic Survey
  Wilcove, R., 21.8–12

U. S. Coast Guard oceanographic programs
  Dinsmore, R. P., 21.4–629

U. S. Department of Commerce
  U. S. Dept. of Commerce, 21.8–9

U. S. Forest Service reports
  U. S. Forest Service, 21.5–685

U. S. marine science research
  U. S. National Council on Marine Resources and Engineering Development, 21.4–634

U. S. National Aeronautics and Space Administration
  U. S. National Aeronautics and Space Administration, 21.8–668

U. S. National Science Foundation
  Abel, R. B., 21.3–766

U. S. Naval oceanographic office
  Felts, H. C., 21.3–757

U. S. Navy oceanography programs
  French, R. A., 21.3–767

U. S. satellite, ATS-1
  Allied Research Associates, Inc., Concord, Mass., 21.3–122
  Arnoldy, R. L. et al., 21.6–396
  Doolittle, R. C., 21.11–79
  Fujita, T. T., 21.3–485
  Izawa, T., 21.7–583
  Pfitzer, K. A. et al., 21.10–287
  Raschke, E., 21.6–365, –366
  Vonder Haar, T. H., 21.7–328

U. S. satellite, ATS-2
  Stone, R. G. et al., 21.4–453

U. S. satellite, ATS-3
  Allied Research Associates, Inc., Concord, Mass., 21.3–122
  Bradbury, D. L., 21.12–401
  Fujita, T., 21.6–578; 21.11–274
  Kaminski, H., 21.5–96
  Ninomiya, K., 21.12–399
  Stamm, A. J., 21.11–379
  Vonder Haar, T. H., 21.7–328

U. S. satellite, Canary Bird
  Houminer, Z., 21.12–72
  Lundbak, A. N., 21.11–199

U. S. satellite, Echo-2
  Buffoni, L. et al., 21.1–421
  Cook, G. E., 21.12–315

U. S. satellite, Essa-3
  Chang, D. T. et al., 21.5–414

Izawa, T., 21.7–583
Morton, W. T., 21.4–272

U. S. satellite, Essa-5
Izawa, T., 21.7–583

U. S. satellite Essa-7
U. S. Environmental Data Service, 21.11–59R

U. S. satellite, Essa-8
Zwart, B., 21.12–52

U. S. satellite, Explorer-7
Bradshaw, N. L., 21.10–59
House, F. B., 21.8–46

U. S. satellite, Explorer-8
Samir, U., 21.10–67

U. S. satellite, Explorer-12
Kaufmann, R. L., 21.3–387

U. S. satellite, Explorer-16
Jennison, R. C., 21.12–613

U. S. satellite, Explorer-17
Newton, G. P. et al., 21.5–216; 21.12–206

U. S. satellite, Explorer-20
Russell, S. et al., 21.10–186

U. S. satellite, Explorer-22
Burkard, O. M., 21.11–176
Ebel, A., 21.11–183
Hartmann, G. K., 21.1–313; 21.9–168
Lundbak, A. N., 21.11–199
Mitiakova, E. E. et al., 21.3–39; 21.8–192

U. S. satellite, Explorer-30
Michard, R. et al., 21.2–148

U. S. satellite, Explorer-31
Brace, L. H., 21.11–172
Colin, L. et al., 21.10–160
Donley, J. L. et al., 21.10–162; 21.11–182
Hoffman, J. H., 21.10–61
Samir, U., 21.1–318; 21.10–67
Wrenn, G. L. et al., 21.10–201

U. S. satellite, Explorer-32
Brinton, H. C. et al., 21.11–175
Newton, G. P. et al., 21.3–314

U. S. satellite, Explorer-33
Drake, J. F., Sr. et al., 21.8–267

U. S. satellite, Explorer-34
Burlaga, L. F. et al., 21.7–365

U. S. satellite, Explorer-35
Drake, J. F., Sr. et al., 21.8–267
Ness, N. F., 21.9–486
Yeh, R. S. et al., 21.4–479

U. S. satellite, IMP-1
Egidi, A. et al., 21.2–135
Hruska, A. et al., 21.5–731

U. S. satellite, IMP-3
Kinsey, J. H. et al., 21.2–147

U. S. satellite, IMP-4
Simnett, G. M. et al., 21.8–308

U. S. satellite, Injun-4
Gurnett, D. A. et al., 21.4–383

U. S. satellite, Injun-5
Gurnett, D. A., 21.11–543

U. S. satellite, Nimbus-2
Greaves, J. R. et al., 21.2–764
Hauth, F. F., 21.8–365
Hubert, L. F. et al., 21.3–462
LaViolette, P. E. et al., 21.2–211, –667
Martin, F. L., 21.3–582; 21.11–350
Pallmann, A. J., 21.4–230
Pouquet, J., 21.1–155
Raschke, E. et al., 21.10–265
Vukovich, F. M., 21.5–493
Warnecke, G. et al., 21.8–51
Wilkerson, J. C. et al., 21.4–184

U. S. satellite, Nimbus-3
Cook, A. K., 21.1–150
Heath, D. F., 21.5–446
U. S. Goddard Space Flight Center, Greenbelt, Md., 21.10–49R; 50R
U. S. National Environmental Satellite Center, 21.6–70
Wark, D. Q. et al., 21.3–547; 21.11–35

U. S. satellite, Nimbus-3 data
Allied Research Associates, Inc., Concord, Mass., 21.9–155R

U. S. satellite, OV1-5
Breene, R. G., Jr., 21.1–419

U. S. satellite, OV1-9
Katz, L. et al., 21.2–351

U. S. satellite, OV1-15
Carter, V. L., 21.4–36

U. S. satellite, Secor-6
King-Hele, D. G. et al., 21.1–272

U. S. satellite, Tiros
Cashion, R. E. et al., 21.1–148

U. S. satellite, Tiros-4
Siebers, J. O., 21.8–49

U. S. satellite, Tiros-7
Bonner, W. D. et al., 21.3–148
Panofsky, H. A. et al., 21.2–23

U. S. satellite, Tiros-8
Bonner, W. D. et al., 21.3–148

U. S. satellite, Tiros-9
Mukherjee, A. K. et al., 21.7–296

U. S. satellite, Vela
Strong, I. B., 21.7–385

U. S. satellite data
U. S. National Space Science Data, 21.9–161R, –165R

U. S. satellites
Johnson, D. S., 21.8–47
Leese, J. A. et al., 21.5–97
Nordberg, W., 21.5–99
U. S. National Environmental Satellite Center, 21.1–157
Vaisala News [Helsinki], 21.3–153

U. S. satellites, ESSA-3/ESSA-5 data
U. S. Environmental Data Service, 21.9–162R, –163R

U. S. satellites, ESSA-3, –5, –7, data
U. S. Environmental Data Service, 21.9–164R

U. S. satellites, Tiros
Dambkovskaia, E. P., 21.2–255

U. S. space probe, Lunar Orbiter-1
Hughes, J., 21.2–397

U. S. space probe, Lunar Orbiters
Brunk, W. E., 21.10–605
Moritz, H., 21.7–750
U. S. space probe, Mariner-4
Heusseler, H., 21.2–444
Jones, D. E., 21.2–437
Young, A. T., 21.8–749
U. S. space probe, Mariner-5
Fjeldbo, G. et al., 21.9–498
Goody, R., 21.11–575
Gurvich, A. S., 21.9–501
Israel, F., 21.8–736
U. S. space probe, Mariner-6
Barth, C. A. et al., 21.10–612
Dollfus, A. et al., 21.10–613
Kliore, A. et al., 21.10–616
Weiss, G., 21.2–448
U. S. space probe, Mariner-7
Dollfus, A. et al., 21.10–613
Herr, K. C. et al., 21.10–614
Kliore, A. et al., 21.10–616
Weiss, G., 21.2–448
U. S. space probe, Pioneer-6
Bukata, R. P. et al., 21.9–538
Hundhausen, A. J., 21.4–384
Levy, G. S., 21.11–646
U. S. space probe, Pioneer-7
Bukata, R. P. et al., 21.9–538
U. S. space probe, Pioneer-8
Berg, O. E. et al., 21.4–433; 21.5–691
U. S. space probe, Pioneer-10
Nature [London], 21.4–492
U. S. space probe, Surveyor-7
Rozenberg, G. V., 21.12–599
U. S. space probes, Surveyor
Allen, L. H., 21.6–694
Jaffe, L. D. et al., 21.7–752
Lucas, J. W., 21,.5–699
Norton, R. H., 21.6–728
U. S. National Aeronautics and Space Administration, 21.5–697
U. S. space program
U. S. National Aeronautics and Space Administration, 21.11–40R
U. S. space research
U. S. President's Space Task Group, 21.8–669
U. S. space research program
Wukelic, G. E. et al., 21.9–44
U. S./U.K. satellite, Ariel-1
Liu, V. C. et al., 21.7–193
Samir, U., 21.10–67
U. S./U.K. satellite, Ariel-2
Jennison, R. C., 21.12–613
U. S./U.K. satellite, Ariel-3
Bent, R. B., 21.10–255
U. S. Weather Bureau
ESSA [Wash., D. C.], 21.8–11; 21.10–68
U. S. Weather Bureau, 21.10–56R
U. S. Weather Bureau research and development programs
Cressman, G. P., 21.1–62
U. S. Weather Bureau services
U. S. Weather Bureau, 21.3–32
Wilcove, R., 21.8–12
U. S. Weather Service
Hughes, P., 21.10–5
White, R. M., 21.10–15
Universities and hydrology
Espildora, B., 21.7–771
Universities and meteorology
Colorado. State Univ., Ft. Collins. Dept. of Atmospheric Sciences, 21.1–61
Roberts, W. O. et al., 21.3–22
Updraft measurement
Tatehira, R., 21.10–87R
Upper air analysis
U. S. Air Weather Service, 21.7–91
Zin'kovskaia, T. S., 21.5–186
Upper air analysis techniques
Dixon, R., 21.12–138
Upper air calculation
Gavrilova, Z. I., 21.2–9
Upper air charts
Adams, J. M., 21.3–218
U. S. National Meteorological Center, 21.5–147
Upper air charts, Tropics
Rudloff, W., 21.9–71R
Upper air circulation
Belich, R. B. et al., 21.6–305
Chapman, G. E., 21.11–179
Gaĭgerov, S. S. et al., 21.6–454
Groves, G. V., 21.7–504
Lysenko, I. A. et al., 21.6–512
Upper air climatology
Crutcher, H. L. et al., 21.4–312
Morris, J. E., 21.11–478
Mukae, M. et al., 21.10–471
Rex, D. F. (ed.), 21.9–404
Upper air data
Canada. Meteorological Branch, 21.5–79
Pantzke, E. et al., 21.10–53
Singapore Meteorological Service, 21.1–142; 21.8–41
Smith, W. S. et al., 21.5–83
Upper air data, Netherlands
Upper air data analysis
Gocho, Y., 21.12–148, –149
Netherlands. Meteorologisch Institut, 21.9–208R, –209R
Upper air data processing
Burlak, G. N., 21.11–23
Johnson, N. L., 21.8–21
Mitchell, L. V., 21.9–21
Upper air data summaries
France. Météorologie Nationale, 21.10–51

Upper air density variation
King-Hele, D. G. et al., 21.1–272
Upper air eddy diffusion
Gebhart, R., 21.5–448
Upper air flow patterns
Frost, R., 21.4–239
Upper air geopotential
Woodworth, W. C., 21.3–342
Upper air humidity analysis
Komarov, V. S., 21.11–364
Upper air humidity measurements
Fedynskiĭ, A. V., 21.5–49
Perov, S. P., 21.3–59
Pontikis, C. et al., 21.6–32; 21.7–23
Ostlund, H. G. et al., 21.5–50
Upper air ionization
Bizunov, V. P., 21.12–584
Upper air lows
Jacobson, A. L., 21.2–96
Upper air measurements
Beyers, N. J., 21.12–60
Pearson, P. H. O., 21.3–127
Upper air observations
Expédition Antarctique Belgo-Néerlandaise, 1966, 21.5–81
Machta, L. et al., 21.5–82
Upper air oxygen rocket measurement
Haslett, J. C. et al., 21.7–158
Upper air pressure fields
Olintseva-Nebrat, G. G., 21.2–219
Upper air sampling
Martell, E. A., 21.6–64
Upper air sodium
Moffett, R. J., 21.7–132
Upper air sounding data
Australia. Bureau of Meteorology, 21.3–123
Upper air sounding techniques
Australia. Bureau of Meteorology, 21.3–123
Bollermann, B. et al., 21.3–141
Daniel, O. H., 21.11–24
Fischbach, F. F. et al., 21.6–21
Joplin, S. D., 21.12–29
Kliore, A., 21.6–22
Kokin, G. A. et al., 21.3–49
Pilipowskyj, S., 21.10–66
Postmentier, E. S. et al., 21.6–24
Sheppard, L. M., 21.1–320
Shliakhov, V. I., 21.3–51
Staffanson, F. L., 21.11–28
U. S. National Aeronautics and Space Administration, 21.11–29
U. S. Office of Federal Coordinator for Meteorological Services and Supporting Research, 21.8–22
Williamson, L. E., 21.12–64
Upper air soundings
Australia. Bureau of Meteorology, 21.12–57
Ballard, H. N., 21.11–77
De Mendonca, F. et al., 21.5–80
Faire, A. C. et al., 21.5–311
Ivanov, V. Kh., 21.6–56
Karjoto, — — et al., 21.6–57
Pearson, P. H. O., 21.11–61
Upper air temperature
DeLeeuw, J. H. et al., 21.3–55
Schmidt, I., 21.6–162
Veselova, G. K., 21.12–455
Webb, W. L., 21.6–206
Upper air temperature calculations
Gorokhova, T. I., 21.9–246
Upper air temperature changes
McClatchey, R. A., 21.4–176
Upper air temperature correlations
Vasil'ev, V. V., 21.9–248
Upper air temperature data analysis
Groves, G. V., 21.11–32
Maruyama, T., 21.7–275
Upper air temperature distribution
Gaĭgerov, S. S. et al., 21.6–454
Koshel'kov, Iu. P., 21.4–37
Upper air temperature forecast
Japan. Meteorological Agency, 21.9–104
Upper air temperature forecasting
Koteswaram, P., 21.10–107
Upper air temperature instruments
Krechmer, M. V., 21.11–87
Upper air temperature measurement errors
Fourrier, J. et al., 21.6–453
Upper air temperature measurements
Abel, P. G., 21.11–322
Beliaev, V. P., 21.5–113
Carru, H. et al., 21.9–250
Chizhov, A. F., 21.10–314
Clark, D. D., 21.7–21
Groves, G. V., 21.11–32
Kennedy, B. W., 21.3–188
Kibiński, J. M., 21.3–65
Shepherd, G. G., 21.7–450; 21.12–38
Smith, L. B., 21.12–207
Swenson, G. R., 21.3–563
Von Zahn, U., 21.12–281
Upper air temperature profiles
Ivanova, I. N. et al., 21.6–458
Tsvang, L. R., 21.11–321
Upper air temperature regime
Gaigerov, S. S., 21.12–354
Upper air temperature variations
Groves, G. V., 21.6–517
Ianova, S. N., 21.10–19R
Upper air tidal winds
Groves, G. V., 21.6–517
Reed, R. J. et al., 21.4–242
Spizzichino, A., 21.6–514, –515
Upper air turbulence
Ahmad, M. S., 21.7–470
Gebhart, R., 21.5–448
Pokrovskiĭ, G. B. et al., 21.4–241

- Shnaĭdman, V. A., 21.3–596
- Trowbridge, C. A. et al., 21.1–487
- Zimmerman, S. P., 21.1–488

Upper air turbulence measurements
- Nathan, N. H. et al., 21.3–136

Upper air water vapor measurements
- Markov, M. N., 21.1–551

Upper air wind
- Schmidt, I., 21.6–162

Upper air wind analysis
- Spizzichino, A., 21.6–514
- Woodrum, A. et al., 21.3–632

Upper air wind calculation
- Heybey, W. H., 21.5–46
- Miller, A. J., 21.6–513

Upper air wind–cloud seeding effects
- Lovasich, J. L. et al., 21.7–123

Upper air wind computation
- Golubov, R. S., 21.12–484
- Hsin, K. T. et al., 21.4–238
- Johnson, S. G., 21.10–342
- Woodrum, A. et al., 21.3–631

Upper air wind correlations
- Panchev, St., 21.1–529

Upper air wind data
- Chesneau, J. et al., 21.9–370

Upper air wind data analysis
- Groves, G. V., 21.11–32
- Maruyama, T., 21.7–275, –497

Upper air wind distribution
- Bhavsar, P. D., 21.7–503
- Cristodor, E. et al., 21.4–213
- Gaĭgerov, S. S. et al., 21.6–454
- Koshel'kov, Iu. P., 21.4–37, –348

Upper air wind forecast
- Japan. Meteorological Agency, 21.9–104

Upper air wind forecasting
- Koteswaram, P., 21.10–107
- Pogosian, Kh. P. et al., 21.3–256
- Regula, H., 21.12–142

Upper air wind frequencies
- Maenhout, A. G., 21.1–532

Upper air wind investigations
- MacKinnon, R. F., 21.1–472

Upper air wind measurement accuracy
- Axford, D. N., 21.1–527

Upper air wind measurement errors
- Hyson, P., 21.1–182
- Reed, J. W., 21.1–530

Upper air wind measurements
- Ahmad, M. S., 21.7–470
- Andreeva, L. A., 21.12–39
- Armstrong, E. B., 21.3–67
- Bedinger, J. F., 21.5–517
- Bhavsar, P. D., 21.7–503
- Heybey, W. H., 21.5–46
- Karimov, K. A., 21.6–511
- Lysenko, I. A. et al., 21.6–512
- Miller, A. J. et al., 21.4–173
- Murrow, H. N., 21.12–40
- Pakhomov, S. V., 21.3–628; 21.11–93
- Peace, R. L., Jr. et al., 21.3–629
- Revah, I., 21.7–507
- Smith, L. B., 21.12–207
- Sokołowska, K., 21.3–73
- Walczewski, J., 21.6–30
- Wright, J. B., 21.12–35

Upper air wind models
- Groves, G. V., 21.7–504

Upper air wind periodicities
- Hopwood, J. M., 21.6–518
- Miniushine, L. S., 21.5–520

Upper air wind regime
- Gaĭgerov, S. S., 21.12–354
- Kantor, A. J., 21.5–518
- Maenhout, A. G., 21.1–532
- Melkozerova, T. M., 21.11–348
- Petrenko, N. V., 21.7–506
- Petrosiants, M. A. et al. 21.4–240
- Wehner, H., 21.6–662

Upper air wind shear
- Guterman, I. G., 21.11–34

Upper air wind structure
- Madden, R. A. et al 21.10–345
- Pinus, N. Z., 21.3–630

Upper air wind variations
- Groves, G. V., 21.6–517

Upper air wind velocities
- Petrenko, N. V., 21.7–5

Upper air wind velocity extremes
- Gringorten, I. I., 21.2–2

Upper air X-ray radiation
- Sekihara, K., 21.6–216

Upper atmosphere
- Braunberg, R., 21.4–51
- King-Hele, D. G. et a 21.3–312, –313
- Mattana, N. et al., 21.2–9
- Newton, G. P. et al., 21.3 314
- Salah, J. E., 21.3–315

Upper atmosphere aerosol layer
- Kosters, J. J. et al., 21.3 514

Upper atmosphere apparatus
- Groth, W., 21.5–105

Upper atmosphere bibliographies
- U. S. National Aeronautic and Space Administration, 21.8–156

Upper atmosphere chemistry
- Hudson, R. D., 21.3–319
- Lloyd, K. H., 21.12–211
- Saxena, P. P., 21.7–164
- Scott, W. D. et al., 21.1 319

Upper atmosphere circulation research
- Spier, J. L., 21.10–58

Upper atmosphere cloud experiments
- Portniagin, Iu. I. et a 21.5–39

Upper atmosphere composition
- Arnold, F. et al., 21.5–30

  - Biuro, E. D. et al., 21.5–309
  - DeLeeuw, J. H. et al., 21.3–55
  - Golishev, G. I., 21.5–312
  - Hayakawa, S. et al., 21.3–57
  - Quessette, J. A., 21.9–147
  - Von Zahn, U. et al., 21.3–326; 21.12–281
- **Upper atmosphere composition measurements**
  - Gibson, A. J., 21.5–41
- **Upper atmosphere conferences**
  - U. S. National Aeronautics and Space Administration, 21.11–29
  - Webb, W. L. et al., 21.3–358
- **Upper atmosphere densities**
  - Lindblad, B. A., 21.9–472
  - Logvinov, K. T., 21.9–114
  - Mertsalova, O. B., 21.11–155
  - Waldteufel, P., 21.1–273
- **Upper atmosphere densities studies**
  - Jones, L. M., 21.9–23
- **Upper atmosphere density**
  - Barlier, F., 21.4–35
  - Carter, V. L. et al., 21.4–36
  - Gurvich, A. S., 21.6–161
  - Koshel'kov, Iu. P., 21.4–37
  - Schmidt, I., 21.6–162
  - Tank, W. G., 21.3–61
- **Upper atmosphere density calculations**
  - Krylova, L. M., 21.11–153
- **Upper atmosphere density measurement errors**
  - Newton, G. P. et al., 21.5–216
- **Upper atmosphere density measurements**
  - Andreeva, L. A. et al., 21.5–40
  - Broglio, L., 21.7–126
  - Kostko, O. K. et al., 21.5–215
  - Lusignan, B. B., 21.7–20
  - Moe, M. M., 21.3–58
  - Newton, G. P., 21.12–206
  - Orszag, A. et al., 21.9–115
  - Sloan, G. J., 21.11–156
  - Von Zahn, U., 21.12–281
  - Westlund, C. D., 21.12–208
  - Wright, J. B., 21.12–35
- **Upper atmosphere density profiles**
  - King-Hele, D. G. et al., 21.8–132
- **Upper atmosphere density variations**
  - Jacchia, L. G., 21.6–201
  - Miers, B. T. et al., 21.10–135
- **Upper atmosphere diffusion**
  - Babadzhanov, P. B. et al., 21.9–255
  - Trowbridge, C. A. et al., 21.1–487
- **Upper atmosphere electricity measurements**
  - Filippov, A. Kh. et al., 21.7–54
- **Upper atmosphere electron stream effects**
  - Osipov, N. K. et al., 21.3–529
- **Upper atmosphere emission**
  - Swider, W., Jr., 21.7–361
- **Upper atmosphere heating**
  - Johnson, F. S. et al., 21.7–161
  - Thomas, G. E. et al., 21.6–457
  - Webb, W. L., 21.6–208
- **Upper atmosphere hydrogen**
  - Quessette, J. A., 21.9–147
- **Upper atmosphere ion composition**
  - Tiernan, T. O. et al., 21.3–356
- **Upper atmosphere models**
  - Champion, K. S. W., 21.5–310
  - Gaĭgerov, S. S., 21.12–354
  - Groves, G. V., 21.6–199
  - Ivanovskiĭ, A. I. et al., 21.6–200
  - Jacchia, L. G., 21.5–315
  - Karjoto, — — et al., 21.6–57
  - Kokin, G. A., 21.5–313
- **Upper atmosphere motions**
  - Beyers, N. J., 21.12–60
- **Upper atmosphere parameters**
  - Barron, R. L., 21.7–156
  - Faire, A. C. et al., 21.5–311
  - Gavrilova, Z. I., 21.2–9
- **Upper atmosphere physics**
  - Maeda, K., 21.3–352
  - Webb, W. L. et al., 21.3–358
- **Upper atmosphere radiation**
  - Barashkova, E. P., 21.9–4R
  - Markov, M. N., 21.4–55
- **Upper atmosphere research**
  - Istomin, V. G. et al., 21.3–349
  - Tulinov, V. C., 21.3–357
  - U. S. Office of Federal Coordinator for Meteorological Services and Supporting Research, 21.8–22
  - Vorontsov, P. A., 21.9–95R
- **Upper atmosphere research methods**
  - Link, F., 21.9–146
- **Upper atmosphere rotation**
  - Matuura, N., 21.8–189
- **Upper atmosphere sampling**
  - *NCAR Quarterly* [Boulder, Colo.], 21.7–162
- **Upper atmosphere scale height**
  - Taffe, W. J., 21.4–57
- **Upper atmosphere structure**
  - Groves, G. V., 21.6–199
  - London, J., 21.8–154
  - Schwentek, H., 21.6–203
- **Upper atmosphere vertical motions**
  - Marshall, J. C., 21.3–70
- **Upper atmospheric absorption**
  - Krueger, A. J., 21.6–380
- **Upper atmospheric diffusion**
  - Justus, C. G., 21.3–413

Upper atmospheric dynamics
Izakov, M. N., 21.4–52
Upper atmospheric EUV
Hinteregger, H. E., 21.6–370
Upper atmospheric electricity measurements
Ogawa, T. et al., 21.10–491
Upper atmospheric energy balance
Justus, G. C., 21.3–413
Upper atmospheric gravity waves
Groves, G .V., 21.6–517
Spizzichino, A., 21.6–514, –515
Upper atmospheric helium
Tinsley, B. A., 21.6–204
Upper atmospheric hydrogen
Tinsley, B. A., 21.6–204
Upper atmospheric ion concentration
Horiuchi, G., 21.5–314
Upper atmospheric meteor dust
Shafrir, U. et al., 21.5–711
Upper atmospheric NO_2
Saxena, P. P., 21.5–230
Upper atmospheric nitric oxide
Mitra, A. P., 21.6–202
Saxena, P. P., 21.7–164
Upper atmospheric nitrogen
Saxena, P. P., 21.7–164
Upper atmospheric oxygen
Haslett, J. C. et al., 21.7–158
Lockey, G. W. A. et al., 21.4–54
McCormac, B. M. et al., 21.5–227
Quessette, J. A., 21.7–163
Wildman, P. J. L., 21.3–327
Upper atmospheric photochemical reactions
Woo, S. B., 21.1–283
Upper atmospheric photoelectronic processes
Prasad, S. S., 21.4–367
Upper atmospheric radar backscatter
Pontikis, C., 21.11–49
Upper atmospheric radiative heating
Shved, G. M. et al., 21.1–452
Upper atmospheric scattering
Eddy, J. A. et al., 21.3–510
Heath, D. F., 21.5–446
Upper atmospheric solar activity
Kazimirovskiĭ, E. S. et al., 21.3–351
Upper atmospheric vibration measurements
Walker, J. C. G., 21.12–282
Upper atmospheric wave motion
Volland, H., 21.1–322
Upper atmospheric waves
Gregory, J. B. et al., 21.1–670
Upper gusts
Elbashan, D., 21.11–343
Upper troposphere carbon dioxide
Georgiĭ, H. W. et al., 21.3–317
Upper tropospheric turbulence
Shnaidman, V. A., 21.3–595
Upper wind measurements
Austria. Zentralanstalt für meteorologie und Geodynamik, 21.3–124
Upper winds, Japan
Suzuki, O., 21.10–85R
Upwelling
Ichiye, T., 21.9–720
Ingham, M. C., 21.12–764
LaViolette, P. E. et al., 21.2–211
Murty, T. X. et al., 21.9–721
Raghavan, K., 21.9–51
Silva, P., 21.8–845
Sugiura, Y., 21.9–704
Upwelling calculations
Zhukov, L. A., 21.10–816
Upwelling effects
Pak, H. et al., 21.5–797
Upwelling water temperatures
Andrews, W. R. H. et al., 21.6–843
Holler, E., 21.4–713
Stevenson, M., 21.5–795
Uranium dating
Duplessy, J. C., 21.11–461
Uranus atmospheric composition
McElroy, M. B., 21.5–710
Uranus atmospheric pressure
Teĭfel', V. G. et al., 21.1
633
Uranus spectra
Teĭfel', V. G. et al., 21.1
633
Uranus temperature
Teĭfel', V. G. et al., 21.1
633
Urban air pollution
Beriudau, C., 21.6–169
Urban air pollution prevention
Cousins, N., 21.11–158
Urban air sulfur dioxide
Hoschele, K., 21.5–256
Urban atmospheric pollution
Berliand, M. E., 21.12–2
Bove, J. L., 21.12–232
Fel'dman, Iu. G. et a
21.1–293
Friedlander, S. K., 21.
248
Jauregui O., E., 21.5–260
McCormick, R. A., 21.
146
Mórik, J., 21.7–147
Moses, H., 21.5–274
Mrose, H., 21.12–251
Petit, L., 21.8–145
Roberts, J. J. et al., 21
196
Rodhe, H., 21.12–255
Rononova, V. A. et
21.1–290
Rossano, A. T., Jr., 21.
305
Rydell, G. P., 21.2–54
Sparrow, C. J., 21.12–2
Straus, H., 21.5–290
Die Umschau [Frankfur
a.M.], 21.5–268
Urban–atmospheric pollution effects
Band, G., 21.9–406

Urban climates
Richter, B. L., 21.11–483
Santomauro, L., 21.2–55
Son'kin, L. R., 21.9–84R
Urban climatology
Ashwell, I. Y., 21.4–350
Bell, W. C., 21.4–351
Hufty, A., 21.4–353
Munn, R. E., 21.4–354
Myrup, L. O., 21.4–355
Peterson, J. T., 21.7–697
Terjung, W. H., 21.6–666; 21.7–698
Thomas, M. K., 21.4–357
Urban climatology symposia
Chandler, T. J., 21.2–336
Urban–country surface temperatures
Tag, P. M., 21.10–308
Urban drainage
Environmental Science and Technology [Wash., D. C.], 21.4–413
Urban heat islands
Davis, M. L., 21.6–450
Findlay, B. F., 21.6–665
Hannell, F. G., 21.4–352
Kingham, H. H., 21.7–434
Lentini, A. D., 21.2–186
Myrup, L. O., 21.4–355
Oke, T. R., 21.4–356
Schulze, P., 21.3–548
Tamiya, H., 21.8–314
Urban hydrology
Martens, L. A., 21.2–277
Terstriep, M. L. et al., 21.5–649
Jrban influence on precipitation
Changnon, S. A., Jr., 21.7–619
Jrban influences
Band, G., 21.9–406
Jrban influences on unoff
Seaburn, G. E., 21.11–426
Jrban influences on emperature
Fukui, E., 21.8–318
Golubova, T. A., 21.6–348
Probald, F., 21.2–180
rban influences on wind
Sokolev, S. D., 21.10–319
rban microclimatology
Golubova, T. A., 21.7–680
Isaakian, Ia. S. et al., 21.6–428
Peterson, J. T., 21.7–697
Urban pollution control
Maunder, W. J., 21.1–302
Son'kin, L. R., 21.9–83R
Urban pollution research
Longley, R. W., 21.5–266
Urban radiation climate
Golubova, T. A., 21.6–348
Urban relative humidities
Richter, B. L., 21.11–483
Urban temperature distribution
Baker, D. G. et al., 21.4–169
Urban temperatures
Davis, M. L., 21.6–450
Isaakian, Ia. S. et al., 21.6–428
Lentini, A. D., 21.2–186
Richter, B. L., 21.11–483
Schulze, P., 21.3–548
Tamiya, H., 21.8–314
Urban watersheds
Moore, W. L. et al., 21.8–794

V

VHF radio wave propagation
Anastassiades, M. et al., 21.6–253
Vikramsingh, R., 21.10–568
VHF sferics
Takagi, M., 21.9–461
VLF atmospheric radiation
Ungethüm, E., 21.7–218
VLF emission from lightning
Himley, R. O., 21.2–383
VLF emission generation
Harang, L., 21.10–536
Jørgensen, T. S., 21.10–543, –544
VLF emission in magnetosphere
Grard, R., 21.7–211
VLF emission theories
Burtis, W. J., 21.2–379
VLF emissions
Hayashi, K., 21.2–382
Helliwell, R. A., 21.10–540
VLF emissions–auroral relationships
Harang, L., 21.10–536
VLF emissions–geomagnetic storm relationships
Harang, L. et al., 21.10–538
VLF field strength
Taylor, H. A., Jr. et al., 21.10–493
VLF hiss–electron flux relationships
Kleimenova, N. et al., 21.9–457
VLF observations
Gurnett, D. A. et al., 21.4–383
VLF radio wave absorption
Jones, T. B. et al., 21.3–392
VLF radio wave propagation
Ungethüm, E., 21.7–218
Valley climatology
Reiter, R., 21.7–685
Valley microclimates
Boros, J., 21.7–675
Vapor pressure charts
Canada. Meteorological Branch, 21.1–550
Vapor pressure deficit
Williams, G. D. V. et al., 21.5–548
Vapor pressure instruments
Schneider, T., 21.7–52
Vascular diseases
Talboys, P. W., 21.4–255
Vegard–Kaplan bands
Ahmed, M., 21.11–529
Vegetation
Coetzee, J. A., 21.1–23
Vegetation effects on runoff
Beattie, B. B., 21.9–610
Tadmor, N. H. et al., 21.5–648
Vegetation effects on soil moisture
Lyford, F. P., 21.7–655
Vegetation effects on water balance
Cadenas de Llano, F. L., 21.11–686
Vegetation microclimatology
Menzhulin, G. V., 21.10–456

Vegetation–runoff effects
  Hibbert, A. R., 21.8–455
  Pase, C. P. et al., 21.6–765
  Satterlund, D. R., 21.6–159
Vegetation–soil erosion effects
  Mannering, J. V., 21.8–491
Vegetation–streamflow effects
  Goubet, A., 21.7–806
Velocity potential estimations
  Kim, H. C., 21.2–648
Velopause height
  Bugaeva, I. V., 21.6–510
Venus
  Gierasch, P. et al., 21.7–754
Venus airglow
  Levine, J. S., 21.9–504
Venus atmosphere
  Avduevskiĭ, V. S. et al., 21.9–496
  Fjeldbo, G. et al., 21.9–498
  Golitsyn, G. S., 21.8–732
  Gol'nev, V. Ia. et al., 21.10–584
  Goody, R., 21.11–574
  Groves, G. V., 21.12–203
  Kliore, A., 21.9–503
  Lukin, D. S., 21.12–603
  Naumov, A. P. et al., 21.10–607
  Palm, A., 21.9–506
  Petri, W., 21.8–741
  Rzhiga, O. N., 21.12–604
  Sagan, C. et al., 21.9–508
  Staley, D. O., 21.7–755
  Zimmer, H., 21.12–605
Venus atmosphere models
  Kazantsev, A. N., 21.12–602
Venus atmosphere turbulent heat flux
  Gurvich, A. S., 21.9–501
Venus atmospheric circulation
  Goody, R., 21.6–701
Venus atmospheric composition
  Eberstein, I. J. et al., 21.8–734
  Knudsen, W. C. et al., 21.10–606
Venus atmospheric density
  Mikhnevich, V. V. et al., 21.9–505
Venus atmospheric models
  Eberstein, I. J. et al., 21.8–734
  Gale, W. et al., 21.9–500
  Ingersoll, A. P., 21.5–707
  Kuz'min, A. D., 21.8–739
  Pollack, J. B., 21.9–507
Venus atmospheric temperatures
  Mikhnevich, V. V. et al., 21.9–505
  Urabe, T., 21.10–610
Venus clouds
  Kuiper, G. P., 21.8–738
  Plummer, W. T. et al., 21.5–708
Venus environment
  Vernov, S. N. et al., 21.10–306
Venus exospheric temperatures
  Stewart, R. W. et al., 21.6–702
Venus exploration
  Hunten, D. M., 21.8–735
  Israel, F., 21.8–736
  Nature [London], 21.10–608
  Zimmer, H., 21.12–605
Venus ionosphere
  Bauer, S. J., 21.12–600
  Brown, R. R., 21.10–291
  Goody, R., 21.11–575
  Gringauz, K. I., 21.12–300
  Kazantsev, A. N., 21.12–602
Venus ionospheric temperatures
  Whitten, R. C., 21.5–709
Venus magnetosphere
  Johnson, F. S. et al., 21.9–502
Venus meteorology
  Kuiper, G. P., 21.8–738
Venus polar temperatures
  Gale, W. A. et al., 21.9–499
Venus probes
  Israel, F., 21.8–736
  Nature [London], 21.10–608
  Petri, W., 21.8–741
  Spiegel, J. M. et al., 21. 743
  Vandrey, J. F., 21.9–511
Venus radiation spectrum
  Naumov, A. P. et a 21.10–607
Venus radio emissions
  Berge, G. L., 21.4–460
  Kuz'min, A. D., 21.8–739
  Strelkov, G. M., 21.4–4
Venus spectra
  Chamberlain, J. W., 21.1 573
  Gray, L. D., 21.12–601
  Jenkins, E. B., 21.11–57
  Kuiper, G. P. et al., 21. 737
  Schorn, R. A., 21.9–5 –510
Venus studies
  Hansen, J. E. et al., 21 368
Venus surface temperatu
  Ohring, G., 21.8–740
Venus temperature
  Strelkov, G. M., 21.4–
Venus temperature determination
  Schorn, R. A. et al., 21 510
Venus upper atmosphere
  Shimizu, M., 21.10–609
Venutian atmosphere
  Ginzburg, A. S. et 21.2–440
  Lewis, J. S., 21.2–441
  Strelkov, G. M. et 21.2–442
Venutian atmospheric models
  Avduevskiĭ, V. S., 21 439
  Mikhnevich, V. V. et 21.1–684
  Ohring, G., 21.8–740
  Sagan, C. et al., 21.1–68
  Solomon, P. M., 21.1–68
  Thaddeus, P., 21.1–687
Venutian clouds
  Sagan, C. et al., 21.1–68
Venutian exploration
  Avduevskiĭ, V. S. et 21.2–439
  Mikhnevich, V. V. et 21.1–684
  Petri, W., 21.8–741

Venutian magnetic field
  Dolginov, Sh. Sh., 21.11–549
Venutian radio emission
  Thaddeus, P., 21.1–687
Venutian surface
  Lewis, J. S., 21.2–441
Venutian surface temperature
  Soloman, P. M., 21.1–686
Vertical atmospheric motions
  Mikashavidze, B. A. et al., 21.10–349
Vertical circulation of seawater
  Stepanov, V. N., 21.4–699
Vertical current profiles
  Rossby, H. T., 21.3–794
Vertical distribution
  Georgiĭ, H. W. et al., 21.3–317
Vertical distribution of aerosols
  Mészáros, A., 21.5–271
Vertical distribution of meteorological elements
  Komarov, V. S., 21.11–27
Vertical eddy diffusion
  Hesstvedt, E., 21.7–353; 21.12–278
Vertical energy
  MacKinnon, R. F., 21.4–86
Vertical energy exchange
  Maruyama, T., 21.7–276
  Warren, F. W. G., 21.4–88
Vertical exchange of momentum
  Swinbank, W. C., 21.2–228
Vertical flux measurements
  Frenzen, P., 21.1–181
Vertical flux processes
  Swinbank, W. C., 21.2–228, –499
Vertical heat flux
  Swinbank, W. C., 21.2–228
Vertical heat flux measurement techniques
  Frenzen, P., 21.1–181
Vertical heat flux measurements
  Wesely, M. L. et al., 21.6–491
Vertical heat transfer
  Riehl, H., 21.3–636
Vertical humidity distribution
  Dombkovskaia, E. P., 21.5–48
  Komarov, V. S., 21.11–317
Vertical humidity distribution measurements
  Mastenbrook, H. J. et al., 21.7–169
Vertical instability
  LoBascio, A. et al., 21.1–351
Vertical motion
  Angell, J. K. et al., 21.4–243
Vertical motion calculation
  Bullick, B. R. et al., 21.1–535
  Djuric, D., 21.9–270
  Ovsiannikov, V. V., 21.11–352
  Sajnani, P. P., 21.7–497
Vertical motion forecasting
  Petrichenko, I. A., 21.12–141
Vertical motion in ocean
  Duing, W., 21.2–746
  Ewing, J. A. et al., 21.2–747
Vertical motion in rain
  Gorelik, A. G. et al., 21.3–84
Vertical motion measurements
  Battan, L. J., 21.7–512
  James, D. C. et al., 21.1–104
Vertical motion–moisture effects
  Komarov, V. S., 21.9–275
Vertical motion–temperature effects
  Banerjee, A. K. et al., 21.4–114
Vertical ocean motion
  Murty, T. S. et al., 21.9–721
  Sudo, H., 21.4–723
  Weyl, P. K., 21.9–712
Vertical ozone calculation
  Bozhkov, R. D., 21.2–63
Vertical ozone distribution
  Anderson, G. P. et al., 21.6–207
  Bettinger, R. T. et al., 21.2–62
  Bojkov, R. D., 21.3–361; 21.5–320
  Breiland, J. G., 21.5–322
  Britaev, A. S. et al., 21.3–362
  Craig, R. A., 21.12–284
  Dütsch, H. U. et al., 21.7–166 to –168; 21.8–133
  Hanel, R. et al., 21.8–241
  Hilsenrath, E. et al., 21.6–211
  Knight, E., 21.11–170
  Krueger, A. J., 21.5–329
  Mani, A. et al., 21.6–214
  Mattana, N. et al., 21.7–170
  Paetzold, H. K. et al., 21.5–331; 21.6–215, –216
  Piaget, A., 21.5–229
  Pittock, A. B., 21.1–327
  Rodionev, S. F. et al., 21.2–25
  Shafrin, Iu. A., 21.1–328
  Shimizu, M., 21.3–367
  Vigroux, E., 21.5–335
Vertical ozone distribution calculation
  Twomey, S., 21.5–334
Vertical ozone distribution measurement errors
  Bol'shakova, L. G. et al., 21.6–114
Vertical ozone distribution measurements
  Galbally, I., 21.6–208
  Mastenbrook, H. J. et al., 21.7–169
  Piscalar, F., 21.6–117
Vertical ozone transport
  Fabian, P., 21.12–287
Vertical precipitation distribution
  Weischet, W., 21.5–618
Vertical precipitation variations
  Havlik, D., 21.5–607
Vertical shear
  Alberty, R. L., 21.5–593
Vertical temperature distribution
  Breiland, J. G., 21.5–322
  Hanel, R. et al., 21.8–241
  Komarov, V. S., 21.11–317

Staley, D. O. et al., 21.2–198

Vertical temperature gradient
Lewinska, J., 21.5–474
McLernon, J. S., 21.4–158

Vertical temperature profiles
Wark, D. Q. et al., 21.3–547

Vertical transfer of heat
Vereshchagin, M. A., 21.7–244

Vertical transfer of momentum
Lindzen, R. S., 21.11–257
Maruyama, T., 21.7–276

Vertical turbulent exchange
Scorer, R. S., 21.7–259

Vertical turbulent exchange in sea
Khlopov, V. V., 21.9–710

Vertical velocities in clouds
Battan, L. J., 21.7–512

Vertical velocity calculations
Dikiĭ, L. A. et al., 21.6–519
O'Brien, J. J., 21.10–347
Voĭt, F. Ia. et al., 21.10–348

Vertical velocity computation
Shukla, J., 21.7–511

Vertical velocity fluctuations
Bonner, W. D. et al., 21.10–215
Herbert, G. A. et al., 21.1–536

Vertical velocity of convection
Andreev, V. M., 21.8–340

Vertical water vapor distribution
Hanel, R. et al., 21.8–241

Vertical wind component measurements
Rider, L. J. et al., 21.4–244

Vertical wind components
Rider, L. J. et al., 21.6–520

Vertical wind measurements
Morrissey, E. G., 21.12–487

Vertical wind profiles
Buckler, S. J., 21.9–262
Court, A. et al., 21.4–224
Ruggles, K. W., 21.11–345
Stengel, R. F., 21.3–191

Vertical wind shear
Essenwanger, O., 21.4–192
Guterman, I. G., 21.11–347
Kantor, A. J., 21.5–518
Kusano, K., 21.10–81R

Vertical zone distribution
Iozenas, V. A. et al., 21.3–363
Randhaws, J. S., 21.3–366

Very low frequency emissions
Vigneron, J. et al., 21.5–734

Vidicon data limitations
Schwalb, A. et al., 21.4–9

Vineyard climatology
Socor, E. et al., 21.9–398

Vineyard microclimatology
Peev, B. et al., 21.2–308

Vineyard temperatures
Peev, B. et al., 21.2–308

Viper Dart Robin Meteorological Rocket System
Bollermann, B. et al., 21.3–141

Virtual height errors
Whitehead, J. D., 21.10–198

Virtual temperature gradient
Bernhardt, K., 21.5–381

Viscosity of sea water
Stanley, E. M. et al., 21.4–661

Visibility at sea
Nagel, F., 21.6–671

Visibility calculation
Popkov, S. L., 21.8–568

Visibility conditions
U. S. Air Force. Cambridge Research Labs., Bedford, Mass., 21.2–341

Visibility forecasting
Kasten, F., 21.10–112
Nomoto, S. et al., 21.3–262, –263; 21.12–151, –152
Sagin, R. C., 21.5–192

Visibility frequencies
Shekhtman, A. N. et al., 21.2–343

Visibility in fog
Briggs, J., 21.3–687
Eldridge, R. G., 21.3–64
Ohtake, T., 21.3–685
Ratsimor, M. Ia., 21.9–41
Spooner, A. H., 21.5–674

Visibility in haze
Garland, J. A., 21.5–249

Visibility in humid air
Kasten, F., 21.10–112

Visibility in rain
Summersby, W. D., 21.6–606

Visibility in water
Austin, R. W., 21.12–744
Swarner, W. G., 21.10–80

Visibility measurement, bibliography
Grimes, A. E., 21.9–134

Visibility measurement techniques
Fimpel, H. et al., 21.1–9

Visibility meters
Lloyd, D. T., 21.11–104

Visibility–relative humidity relationships
Frankenberger, E., 21.6–536

Visibility–scattering coefficient relationships
Horvath, H. et al., 21.10–476

Visibility variations
Briggs, J., 21.3–687
Kasten, F., 21.5–675
Minafra, N. et al., 21.2–34

Visual flight
Goodman, E. A. et al., 21.4–392

Visual observation of noctilucent clouds
Dietze, G., 21.8–580

Visual observations from airplanes
Dmitrenko, V. P., 21.12–

Visual phenomena
Bird, J. F. et al., 21.4–36

Visual range measurements
Grushin, S. I., 21.8–15
Kruglov, R. A., 21.8–75
Savikovskiĭ, I. A., 21.8–7

Visual range of light signals
Popkov, S. L., 21.8–568
Ratsimor, M. Ia., 21.9–41

Visual satellite observations
Rigaud, P., 21.6–674
Viticulture
Jones, M. D. et al., 21.9–239
Primault, B., 21.6–659
Volcanic dust in stratosphere
Volz, F. E., 21.7–706
Volcanic dust in upper atmosphere
Volz, F. E., 21.12–270
Volcanic dust movements
Dyer, A. J. et al., 21.1–292
Volcanic dust–optical effects
Chernov, V. M., 21.6–676
Volcanic dust–optical phenomena effects
Shah, G. M., 21.10–481
Volz, F. E., 21.7–706
Volcanic eruption, Bali (March 17, 1963)
Dyer, A. J. et al., 21.1–292
Volcanic eruption, Mt. Agung (1963)
Volz, F. E., 21.7–706
Voltaire
Dufour, L., 21.5–110
Vortex cloud patterns
Hlachova, P., 21.8–366
Vortex dynamics
Szillinsky, A., 21.4–111
Wilkins, E. M., 21.7–237
Wippermann, F. et al., 21.4–112
Yanai, M. et al., 21.5–411
Ying, S. J. et al., 21.6–341
Vortex flow patterns
Kuo, H. L., 21.3–421
Vortex structure
Horst, W., 21.5–413
Kuo, H. L., 21.3–421
Vortexes in planetary boundary layer
Horst, W., 21.11–225
Szillinsky, A., 21.11–227
Wippermann, F., 21.11–228
Vorticity advection
Hansel, C., 21.4–175
Vorticity analysis
Kuo, H. L., 21.3–421
Oswatitsch, K., 21.7–236
Vorticity calculations
Sajnani, P. R., 21.3–436
Vorticity development
Zimmerman, L. I., 21.4–89
Vorticity energy
Wilkins, E. M., 21.7–237
Vorticity experiments
Horst, W., 21.11–225
Szillinsky, A., 21.11–227

W

WMO
World Meteorological Organization, Executive Committee, 21.10–59R
World Meteorological Organization, Regional Association VI (Europe), 21.10–58R
WMO, Annual Report, 1969
World Meteorological Organization, 21.12–20R
WMO, 5th Session Report
World Meteorological Organization. Regional Association, 21.12–21R
WMO activities
Sebastian, H., 21.10–11
World Meteorological Organization, WMO Bulletin, 21.1–84, –85, –89, –90
WMO and Canada
Canada. Dept. of External Affairs, Ottawa. Information Div., 21.12–22R
WMO Executive Committee Meetings
World Meteorological Organization, Executive Committee, 21.1–83
World Meteorological Organization, WMO Bulletin, 21.1–91
WMO–FAO–UNESCO agroclimatology project
Cochemé, J., 21.11–5
WMO hydrology activities
World Meteorological Organization, 21.6–6
WMO in Africa
Elamly, A. M., 21.11–7
WMO manuals
World Meteorological Organization, 21.5–625
WMO Maritime Meteorology sessions
World Meteorological Organization. Committee for Maritime Meteorology, 21.1–82
WMO participation in IHD
World Meteorological Organization, 21.6–6
WMO reports
World Meteorological Organization, 21.3–33
WSR-57 radars
Kantor, A. J. et al., 21.3–86
WWW in Africa
Elamly, A. M., 21.11–7
Warm fog
Koenig, L. R., 21.7–112
Kraght, P. E., 21.12–184
Warm fog dissipation techniques
Appleman, H. S., 21.11–136
Warm fog properties
U. S. National Aeronautics and Space Administration, 21.6–576
Warm fog suppression
Kocmond, W. C. et al., 21.7–111
Warm front clouds
Gavrilova, L. A., 21.4–120
Warming trends
Polozova, L. G. et al., 21.5–475
Washington University. Department of Oceanography
Oceanic Citation Journal [La Jolla, Calif.], 21.3–765
Washout
Sood, S. K., 21.12–536
Washout of sulfur dioxide
Beilke, S. et al., 21.2–265
Waste control
McGauhey, P. H., 21.1–301
U. S. Congress. Senate Committee on Public Works. Subcommittee on Air and Water, 21.1–309
Waste disposal near shore
Bell, M. A. M., 21.2–403
Waste management
Bell, M. A. M., 21.2–403
Fox, I. K., 21.1–294

McGauhey, P. N., 21.1–301
U. S. Congress. Senate Committee on Public Works. Subcommittee on Air and Water, 21.1–309
Waste water treatment
Johnson, W. K., 21.10–565
Sopper, W. E., 21.8–693
Weber, W. J., Jr., 21.8–694
Water
Chorley, R. J., 21.1–25
Siksna, R., 21.8–602
Water analysis
Ceaușescu, D., 21.5–747
McMahon, J. W., 21.10–765
Solorzano, L., 21.9–701
Water and food production
Sen, B. R., 21.11–676
Water and health
Rozhnov, G. I., 21.4–415
Water and semiarid zones
Ahuja, P. R., 21.11–667
Water balance
Karbaum, H., 21.5–137
Peczely, G., 21.5–646
Porubsky, A., 21.3–642
Starr, V. P. et al., 21.6–535
Water balance–agriculture influences
Goda, L., 21.2–567
Water balance analysis
L'vovich, M. I., 21.11–360
Rasmussen, S., 21.3–643
Rogotskiĭ, V. V., 21.6–533
Water balance bibliography for Asia
Tsuchiya, I., 21.11–50R
Water balance calculations
Lettau, H., 21.6–544
Water balance experiments
Schubach, K., 21.10–355
Water balance in tropical Africa
Moss, R. P., 21.12–570
Water balance methods
L'vovich, M. I., 21.11–361
Water balance of Africa
Karasik, G. Ia., 21.4–514
Water balance of catchment basins
Krestovskiĭ, O. I., 21.8–344
Water balance of Central Black Earth Region, R.S.F.S.R. (European)
Grin, A. M., 21.11–358
Water balance of cotton fields
Levchenko, G. P. et al., 21.8–378
Water balance of Crimean Mts., Ukrainian S.S.R.
Pribluda, V. D., 21.7–779
Water balance of European U.S.S.R.
Grin, A. M., 21.11–357
Water balance of fields
Rogotskiĭ, V. V., 21.6–533
Water balance of forests
Holmes, J. W. et al., 21.10–353
Water balance of grasslands
Dunin, F. X., 21.10–352
Holmes, J. W. et al., 21.10–354
Water balance of Greater Caucasus Mts., Europe
Vladimirov, L. A., 21.12–488
Water balance of Hungary
Goda, L., 21.2–567
Water balance of lakes
Iskendirov, T., 21.6–789
Jureko, Lu., 21.6–790
Kurganova, N. M., 21.6–779
Nicolae, T., 21.6–791
Water balance of mountain regions
Kupriĭanova, E. I., 21.11–359
Water balance of oceans
Turekian, K. K., 21.4–747
Water balance of river basins
Bass, S. V., 21.11–684
Fontaine, P., 21.2–241
L'vovich, M. I., 21.11–685
Water balance of river catchments
Dunin, F. X., 21.10–352
Rachner, M., 21.11–403
Water balance of rivers
Kurganova, N. M., 21.6–779
Nazarov, G. V., 21.11–432
Vodogretskiĭ, V. E., 21.4–578
Water balance of seas
Akademiia Nauk SSSR Institut Geografiĭ, 21.9–678
Henning, D., 21.8–343
Smirnova, K. I., 21.1–25
Worthington, L. V., 21.12–756
Water balance of snow cover
Rachner, M., 21.11–403
Water balance of U.S.S.R
Akademiia Nauk SSSR Institut Geografiĭ, 21.11–355
Dreier, N. N., 21.11–356
L'vovich, M. I., 21.11–360, –362
Water balance of West Africa
Ojo, O., 21.5–564
Water balances of mountain streams
Kiriliuk, M. I., 21.12–69
Water budget calculation
Adem, J., 21.5–553
Water budget of lakes
Mikulski, Z. et al., 21.5–645
Water circulation
Toporkov, L. G., 21.4–69
Water conservation
Maloney, R., 21.10–721
Willis, W. O. et al., 21.10–551
Water consumption measurements
Rutter, A. J., 21.6–548
Water content of air measurements
Obukhov, A. M. et al. 21.8–346
Water content of clouds
Chernikov, A. A., 21.1–583
Dombkovskaia, E. P., 21.6–582
Skatskiĭ, V. I., 21.5–601
Water content of fog
Mumanenko, A. F., 21.3–205
Water content of snow
Kuz'min, P. P., 21.8–463
Pack, A. Boyd, 21.10–415
Water content of snow cover
Berni, A. et al., 21.8–439

De Biasi, G. B. et al., 21.8–459
Hegedus, M. et al., 21.8–443
Kovzel', A. G., 21.8–462

Water content of snow estimation
Grasnick, H., 21.8–460
McKay, G. A., 21.7–641

Water content of snow pack
Rakhmanov, V. V., 21.2–271

Water current measurements
Fonarev, G. A. et al., 21.2–695

Water deficit
Barrs, H. D., 21.5–544
Cowan, I. R. et al., 21.3–700
Crafts, A. S., 21.5–546
Gates, C. T., 21.5–547
Kozlowski, T. T., 21.4–250
Talboys, P. W., 21.4–255

Water deficit measurements
Barrs, H. D., 21.5–544

Water distribution symposia
India. Central Board of Irrigation and Power, 21.4–400

Water drop cooling
Genadiev, N., 21.5–573

Water drop disintegration
Abbas, M. A., 21.1–621

Water drop drag velocities
Beard, K. V. et al., 21.4–285

Water drop freezing
Sarrica, O., 21.1–571

Water droplet production
Facilities for Atmospheric Research [Boulder, Colo.], 21.6–125

Water droplet temperatures
Aroesty, J. et al., 21.1–558

Water evaporation rate
Machta, L., 21.4–258

Water exchange, Arctic basin–Pacific Ocean
Gushchenkov, E. M., 21.11–12R
Shpaĭkher, A. O. et al., 21.4–743

Water exchange, Atlantic–Arctic
Antonov, V. S., 21.2–751

Water exchange, Atlantic–Mediterranean
Coste, B., 21.10–807
Zenk, W., 21.4–712

Water exchange, Mediterranean Sea
Zore-Armanda, M., 21.1–739

Water fog backscattering
Kumai, M. et al., 21.2–253

Water for Peace
Abbas, B. M., 21.11–95R
Aguerrevere, F. G., 21.11–95R
Al Rasheed, A. D., 21.11–95R
Angoedi, A., 21.11–95R
Australia. Dept. of National Development, 21.11–95R
Barrett, R., 21.11–95R
Belgium (Government), 21.11–95R
Ben Osman, M. E., 21.11–95R
Botswana (Republic). Water Development Committee, 21.11–95R
Campbell, J. L., 21.11–95R
Canada. Dept. of Energy, Mines, and Resources, 21.11–95R
Choi, B. Y., 21.11–95R
Clark, A. E., 21.11–95R
Congo (Republique), 21.11–95R
Cordeiro, N. V., 21.11–95R
Corrales, M. F., 21.11–95R
Donoso, R. J., 21.11–95R
Ethiopia. Water Resources Dept., 21.11–95R
Falkenmark, M., 21.11–95R
Fawaz, M., 21.11–95R
France. Secretariat Permanent pour l'Etude des Problèmes de l'Eau, 21.11–95R
Germany (Federal Republic). Ministry of Health, 21.11–95R
Gillis, L., 21.11–95R
Grandi, A. L., 21.11–95R
Great Britain. Ministry of Housing and Local Government, 21.11–95R
Guatemala. National Commission, 21.11–95R
Hyde, T. R., 21.11–95R
Hyelm Hansen, A., 21.11–95R
International Conference on Water for Peace, 21.11–95R
Italy. National Coordinating Committee, 21.11–95R
Japan. Japanese National Committee, 21.11–95R
Kajosaari, E., 21.11–95R
Konteatis, C. A. C., 21.11–95R
Kriel, J. P., 21.11–95R
Libizangomo, J., 21.11–95R
Libya. Ministry of Agriculture, 21.11–95R
Mohammedi Mohammed, J., 21.11–95R
Molina Garcia, H., 21.11–95R
Netherlands. Rijkswaterstaat, 21.11–95R
Novan, K., 21.11–95R
Peru. National Committee for Water for Peace Conference, 21.11–95R
Philippines. National Committee, 21.11–95R
Pliego, J. M., 21.11–95R
Potter, K. E. D., 21.11–95R
Schmidt, F., 21.11–95R
Selim, M. A., 21.11–95R
Sosa, H. C., 21.11–95R
Thailand. Delegation to the Water for Peace Conference, 21.11–95R
Uganda. Ministry of Mineral and Water Resources, 21.11–95R
U. S. Water Resources Council, 21.11–95R
Uruguay (Office of Planning and Budget), 21.11–95R
Viet Nam. Ministry of Public Works, 21.11–95R

Water for Peace Conference
Ahuja, P. R., 21.11–667
Candau, M. G., 21.11–668
Doxiadis, C. A., 21.11–672
Romulo, C. P., 21.11–675
Sen, B. R., 21.11–676
Shoaib, M., 21.11–677
Water gaging stations
Pitsyk, I. V., 21.4–601
Water–land–man relationships
Doxiadis, C. A., 21.11–672
Water level measurement instruments
Dubreuil, P. et al., 21.7–808
Ragan, R. M. et al., 21.9–580
Water level measurements
Dubreuil, P. et al., 21.7–808
Water level recorders
Sauer, V. B., 21.12–102
Smoot, G. F., 21.12–103
Water leveling techniques
Pitsyk, I. V., 21.4–601
Water levels
Boswell, E. H. et al., 21.5–754
Water levels data, Canada
Canada. Dept. of Energy, Mines, and Resources, Ottawa, 21.9–223R
Water losses
Picandet, P. E., 21.6–754
Water management
Biswell, H. H., 21.6–761
Bratsev, L. A. et al., 21.5–752
Cavecche, E. H., 21.11–692
Davis, R. K., 21.1–3
Falovskiĭ, A. A., 21.11–699
Fedenko, N. V., 21.11–708
Maloney, R., 21.10–721
Meischeider, H., 21.1–778
Nace, R. L., 21.1–549
National Research Council, Wash., D. C., 21.4–529
Pase, C. P. et al., 21.6–765
Paulhus, J. L. H., 21.6–623
Posadas, C., 21.5–753
Salverda, Z., 21.2–528
Water mass exchange
Tomczak, G., 21.1–724
Water mass formation
National Institute of Oceanography, Wormley, Eng., 21.3–777
Water mass mixing
Krause, G., 21.2–753
Mamaev, O. I., 21.9–718
Roden, G. I., 21.10–812
Water mass properties
Kvasov, D. D., 21.12–762
Water mass structure
Schemainda, R., 21.3–773
Shcherbinin, A. D., 21.4–705
Water mass temperatures
Noble, V. E. et al., 21.10–824
Water mass transport
Krause, G., 21.2–753
Wright, W. R., 21.12–763
Water movement in unsaturated soil
Degallier, R., 21.4–539
Water of the world
L'vovich, M. I., 21.11–101R
Water on Moon
Katterfel'd, G. N. et al., 21.4–474
Water planning
Krul, V. F. J. M., 21.11–673
Water plants
Rzoska, J., 21.2–326
Water pollution
Crafts, E. C., 21.8–135
Crutchfield, J. A., 21.1–289
Environmental Science and Technology [Wash., D. C.], 21.4–413
Frink, C. R., 21.4–576
Maunder, W. J. et al., 21.1–303; 21.5–270
National Technical Advisory Committee on Water Quality Criteria, 21.1–14
Roshnov, G. I., 21.4–415
U. S. Congress. House, 21.8–151
Voege, F. A. et al., 21.4–411
Vouk, V. B., 21.9–582
Warren, H. V. et al., 21.1–310
Water pollution control
Abelson, P. H., 21.10–739
Antoniu, R. et al., 21.5–760
Berg, J., 21.6–784
Bernhardt, H., 21.9–662
Burd, R. S., 21.2–618
Clare, H. C., 21.2–551
DeCamp, L. E., 21.4–412
Drachev, S. M. et al. 21.4–591
Environmental Science and Technology [Wash., D. C.], 21.8–137, –695 to 697
Freychuss, S., 21.9–656
Howells, G. P. et al., 21.10–756
LeClerc, E., 21.9–657
Lotspeich, F. B., 21.9–581
Nelson, G., 21.4–671
Netherlands. Institute of Sewage Purification and Industrial Waste Treatment, 21.10–757
Pavanello, R., 21.6–775
Porges, R., 21.10–758
Tarassov, V. J. et al., 21.10–759
Tunney, J., 21.12–267
Williamson, A. E., 21.2–600
Water pollution measurement techniques
Wastler, T. Z., 21.4–793
Water pollution measurements
Piech, K. R., 21.7–809
Water problems research
Krul, V. F. J. M., 21.11–673
Water properties
Allen, L. C. et al., 21.10–694
Tracey, M. V., 21.3–737
Water purification techniques
Sopper, W. E., 21.8–693
Weber, W. J., Jr., 21.8–694
Water quality
Angino, E. et al., 21.2–592
Burd, R. S., 21.2–618
Crutchfield, J. A., 21.1–289

Jensen, L. T., 21.4–402
Lotspeich, F. B., 21.2–611
Morgan, C. O. et al., 21.3–740
National Technical Advisory Commission on Water Quality Criteria, 21.1–14
Roper, L. H. et al., 21.3–742
Rutherford, A. A., 21.9–641
Schoff, S. L. et al., 21.10–723
Trumbull, L. E., 21.6–766
Vouk, V. B., 21.9–582
Waldichuk, M. et al., 21.2–703
Weiss, C. M. et al., 21.10–696
Williamson, A. E., 21.2–600

Water requirements for cities
Doxiadis, C. A., 21.11–672

Water research
OECD Observer [Paris], 21.12–27R

Water research, England
Water Research Association, Medmenham, England, 21.12–19R

Water resources
Australia. Bureau of Meteorology, 21.4–257
Beverage, J. P. et al., 21.6–785
Bykov, V. D. et al., 21.4–512
Chada Filho, L. G. et al., 21.4–536
Chernogaeva, G. M., 21.7–770
Constantinescu, G. P., 21.10–722
Cram, J. S., 21.2–512
Dreyer, N. N., 21.10–677
Hely, A. G., 21.8–772
Karasik, G. Ia., 21.4–514
Landel, E., 21.6–738
Lavrent'ev, P. F. et al., 21.4–516
O'Shea, J. A., 21.9–618
Porubsky, A., 21.3–642
Romulo, C. P., 21.11–675
Vilentchuk, I., 21.8–838
Wolman, A., 21.8–776

Water resources, Pacific Northwest
Highsmith, R. M., Jr. (ed.), 21.11–456

Water resources, U.S.S.R.
Leont'evskiĭ, B. B., 21.9–53R

Water resources conferences
International Conference on Water for Peace, Wash., D. C., 21.4–501

Water resources data
U. S. Geological Survey, 21.10–410

Water resources data evaluation
Davies, E., 21.11–671

Water resources development
Beamish, J. E. et al., 21.6–760
Castany, G. et al., 21.8–789
Christides, O., 21.6–683
Chuck, R. T., 21.9–622
Clerfayt, A., 21.7–787
Crahay, A., 21.7–788
Davies, E., 21.11–671
Fung, C., 21.7–789
Hofmann, W. et al., 21.9–559
International Atomic Energy Agency, 21.6–736
Japan. Science and Technology Agency, 21.9–561
Jones, H. L., 21.9–562
Kahana, Y., 21.8–790
Lotspeich, F. B., 21.2–611
Mahdavi, H., 21.7–790
Matin, A., 21.8–452
Mishari, H., 21.8–791
Moore, J. C., 21.9–617
Olson, G. W., 21.8–676
Ozal, K. et al., 21.7–791
Raudsepp, V., 21.11–423
Rosell, D. Z., 21.9–565
Ruiz Huidobro, O., 21.9–631
Whetstone, G. W. et al., 21.8–781
Wolman, A., 21.8–776
World Health Organization, 21.6–743
World Meteorological Organization, 21.6–6

Water resources engineering conferences
Sanitary and Water Resources Engineering Conference, 21.12–655

Water resources investigations
Chase, E. B., 21.11–669
Kambhu, M. L. X. et al., 21.9–571
Koronkevich, N. I., 21.11–421
Le Saget, A., 21.11–705
Warnick, E. B., 21.8–775
Water Resources Review, 21.9–567

Water resources management
Castany, G. et al., 21.9–612
Charoen-Rajapark, C., 21.8–349
Clare, H. C., 21.2–551
Clerfayt, A., 21.7–787
Crahay, A., 21.7–788
Enslin, J. F. et al., 21.9–624
Flack, J. E., 21.9–613
Frank, W. H., 21.9–642
Frankel, M. L., 21.2–552
Fung, C., 21.7–789
Grin, A. M., 21.11–695
Ineson, J., 21.9–621
International Atomic Energy Agency, 21.6–736
Italconsult Argentina, S. A., 21.9–615
Japan. Science and Technology Agency, 21.9–561
Kalinin, G. P., 21.12–683
Linaweaver, F. P., Jr., 21.6–763
L'vovich, M. I., 21.11–696
Mann, C., 21.9–616
Nagao, M., 21.11–697
Olson, G. W., 21.8–676
O'Shea, J. A., 21.9–618
Shnitnikov, A. V., 21.2–529
Trumbull, L. E., 21.6–766
World Meteorological Organization, 21.8–13

Water resources of the Ukraine and Moldavia
Onufrienko, L. G., 21.11–422

Water resources planning
  Charoen-Rajapark, C., 21.8–349
  Dekker, G., 21.11–6
  Engelbert, E. A., 21.11–694
  Muhleck, H., 21.9–564
  Nance, R. L., 21.9–619
  Valiron, F., 21.8–780
  Wolman, A., 21.8–776
Water resources problems
  Bykov, V. D. et al., 21.4–512
Water resources research
  Bock, P., 21.3–147
  California, Univ., Los Angeles. Water Resources Center, 21.8–771
  Havlick, S. W. et al., 21.5–744
  Hofmann, W. et al., 21.9–559
  Kamal, A. A., 21.9–563
  Lebrun, J. et al., 21.9–572
  Passino, R., 21.6–741
  Rosell, D. Z., 21.9–565
  Science Council of Canada, 21.2–554
  World Health Organization, 21.6–743
Water resources survey
  Boddington, T. J. et al., 21.8–770
  Howe, R. H. L., 21.9–560
  Petrova, R. S. et al., 21.2–553
  Plebuch, R. O., 21.11–717
  Ricour, J., 21.9–630
  Smyth, A. J. et al., 21.8–677
  Thomson, R. L., 21.9–566
  Tricart, J., 21.8–792
Water resources utilization
  Vartazarov, S. Ia., 21.7–640
Water samplers
  Fredriksen, R. L., 21.9–579
  Howmiller, R. P. et al., 21.2–688
  Joyner, B. F., 21.10–686
  Magnuson, J. J. et al., 21.10–687
Water structure
  Siksna, R., 21.12–507
Water supply
  Fedenko, N. V., 21.11–708
  Hely, A. G., 21.8–772
  Lamands, A. G. et al., 21.4–544
  Llamas, M. R., 21.6–767
  Mann, C., 21.9–616
  Rakitina, A. P., 21.11–704
  Ramos Magana, J. et al., 21.4–530, –544
  Valente, N., 21.7–664
Water supply, U.S.A.
  Water Supply Outlook for Utah and Federal–State–Private Cooperative Snow Surveys, 21.11–105R
Water supply economy
  Hurley, P. A., 21.3–673
Water supply for plants
  Koronkevich, N. I., 21.11–421
Water supply from atmospheric vapor
  Hellström, B., 21.10–564
Water supply from glaciers
  Meier, M. F., 21.7–643
Water supply from rivers
  Eipre, T. F., 21.11–729
Water supply from snow
  Rachner, M., 21.8–447
Water supply in cold regions
  Alter, A. J., 21.10–720
Water supply installations
  Clarke, F. E. et al., 21.3–709
Water supply on health effects
  Candau, M. G., 21.11–668
Water supply problems
  Bergeron, T., 21.8–367
  Chan, G. L., 21.11–693
  Widmer, K., 21.9–634
Water supply survey
  MacPhee, W. T. et al., 21.6–764
Water supply systems
  Landel, E., 21.6–738
Water surface measurements techniques
  Rabinovich, Iu. I., 21.9–65R
Water surface temperature measurements
  Rabinovich, Iu. I. et al., 21.2–212; 21.9–63R
Water surface temperature variations
  O'Brien, E. E. et al., 21.3–569
Water table fluctuations
  Gregory, J. L. et al., 21.1–789
Water table variations
  Mathur, R. N., 21.12–691
Water temperature measurements
  Suslova, L. V., 21.3–570
Water temperature variations
  Denisov, Iu. M. et al., 21.4–592
Water temperatures
  Müller, W., 21.12–459
Water transport
  Cowan, I. R. et al., 21.3–700
Water transport in soils
  Wooldridge, D. D., 21.7–659
Water transport in streams
  Wooldridge, D. D., 21.7–659
Water use by plants
  Van Hylckama, T. E. A., 21.2–330
Water utilization
  Ateshian, K. H. et al., 21.8–678
  Flack, J. E., 21.9–613
  Garcés, C., 21.6–762
  Nace, R. L., 21.1–780
  National Technical Advisory Committee on Water Quality Criteria, 21.1–14
Water vapor
  Markov, M. N., 21.1–551
Water vapor absorption
  Birch, J. R. et al., 21.3–638
  Gal'tsev, A. P., 21.3–511
  Neporent, B. S. et al., 21.3–76
  Pearson, J. E. et al., 21.3–641
  Zvereva, S. V., 21.1–463

Water vapor absorption band
  Volz, F. E., 21.5–51
Water vapor absorption of radio
  Tank, W. G., 21.3–61
Water vapor absorption spectra
  Naumov, A. P., 21.5–550
Water vapor content
  Toong, H. D., 21.11–378
Water vapor diffusion
  Bernard, E., 21.8–66
Water vapor flux
  Brock, E. B., 21.5–545
  Phelps, G. T. et al., 21.9–243
Water vapor in Mars atmosphere
  Owen, T. et al., 21.10–621
Water vapor in mesosphere
  Hesstvedt, E., 21.8–581
  Konashenok, V. N., 21.10–25R
Water vapor in stratosphere
  Hesstvedt, E., 21.8–581
  Komarov, V. S., 21.2–239
Water vapor in Venus atmosphere
  Kuiper, G. P. et al., 21.8–737
  Schorn, R. A., 21.9–509
  Viktorova, A. A. et al., 21.2–443
Water vapor lines in solar spectra
  Wöhl, H., 21.10–671
Water vapor measurement techniques
  Rabinovich, Iu. I., 21.9–64R
  Stoner, R. B., 21.11–36
Water vapor measurements
  Shifrin, K. S., 21.3–77
  Volz, F. E., 21.5–51
Water vapor mixing ratio
  McKee, T. B. et al., 21.4–253
Water vapor over lakes
  Fontes, J. C. et al., 21.7–520
Water vapor profile measurements
  Cooney, J., 21.6–31
  Kaplan, L. D., 21.9–24
Water vapor spectrum
  Fridovich, B., 21.3–640
Water vapor transfer
  Chamberlain, A. C., 21.1–490
  Rasmusson, E. M., 21.4–87
Water vapor transport
  Brock, E. B., 21.5–545
  Desai, B. N., 21.6–534
  Henning, D., 21.3–442
Water waves textbooks
  Le Mehaute, B., 21.12–735
Waterborne diseases
  Candau, M. G., 21.11–668
Watershed changes
  Moore, W. L. et al., 21.8–794
Watershed experimental system
  Chow, V. T., 21.11–688
Watershed hydrology
  Ayers, H. D. et al., 21.9–651
  Bowers, C. E. et al., 21.1–601
  Brown, H. E., 21.12–693
  Cadenas de Llano, F. L., 21.11–686
  Ingebo, P. A., 21.1–56
  Ishihara, Y., 21.11–718
  Lull, H. W. et al., 21.8–797
  MacKay, G. H., 21.9–650
  Stephenson, G. R. et al., 21.8–795
Watershed hydrometeorology
  Lumb, A. M., 21.10–128
Watershed management
  Beattie, B. B., 21.9–610
  Brown, H. E., 21.12–693
  Campbell, D. A., 21.9–611
  Holloway, J. T., 21.9–614
  Holtan, H. N., 21.10–741
  Teller, H. L., 21.9–620
Watershed modeling
  Ayers, H. D. et al., 21.9–651
  Hall, M. J., 21.2–526
  Nemec, J. et al., 21.6–628
  Rastogi, R. A. et al., 21.9–649
  Seginer, I., 21.5–763
Watershed models
  Dyck, S., 21.10–740
  Labadie, J. W. et al., 21.6–776
Watershed precipitation–runoff compilations
  Fogel, M. M., 21.8–376
Watershed research
  International Hydrological Decade, 21.7–801
  MacKay, G. H., 21.9–650
  Ragan, R. M., 21.6–744
  Storr, D., 21.9–338
Watershed research methods
  Holtan, H. N., 21.10–741
Watershed runoff
  Bay, R. R., 21.6–753
  Betson, R. P. et al., 21.8–454
  Okunishi, K., 21.11–716
  Terstriep, M. L. et al., 21.5–649
Watershed runoff from model
  Black, P. E., 21.12–692
Watershed scale modeling
  Eagleson, P. S., 21.10–683
Waterspouts
  Golden, J. H., 21.4–110
Waterspouts on glaciers
  Ewing, K. et al., 21.10–253
Wave attenuation
  Glukhovskiĭ, B. Kh., 21.12–778
Wave components
  Brovikov, I. S., 21.10–10R
Wave effects on sea walls
  Iwagaki, Y., 21.12–794
Wave force on structures
  Iwagaki, Y., 21.12–793
Wave height estimations
  Kim, H. C., 21.2–648
Wave measurement techniques
  Dreier, A. A., 21.11–683
Wave mechanics
  Scorer, R. S., 21.6–281, –282
Wave motion studies
  Hallett, J., 21.7–227
  Kotik, J. et al., 21.2–649
Wave motion textbooks
  Barber, N. F. et al., 21.10–831

Wave observations
  Mayençon, R., 21.2–650
Wave observations statistics
  Mayençon, R., 21.2–650
Wave recorders
  Fedulova, E. M., 21.4–595
Wave recording
  Dreier, A. A., 21.11–683
Wave run-up
  Meyer, R. E., 21.5–799
Wave spectrum standard
  Hogben, N., 21.7–502
Wave tanks
  Iwagaki, Y., 21.12–794
Wave theories
  Iwagaki, Y., 21.12–785, –786
Waves in thermosphere
  Volland, H. E., 21.5–375
Waves in upper atmosphere
  Chapman, G. E., 21.11–179
Weather
  Faust, H., 21.3–15
  Skerjanec, R. E. et al., 21.3–27
Weather aloft
  Kaufeld, L., 21.3–445
Weather analysis
  Green, R. A., 21.5–150
  Wagner, A. J., 21.5–151
Weather and agriculture
  Oury, B., 21.9–10
Weather and cattle diseases
  Donnelly, J., 21.11–303
Weather and crops
  Landers, H., 21.10–443
Weather and man
  Arctic Institute of North America, 21.8–532
  Hughes, P., 21.8–3
Weather and pigeon racing
  Rice, R. W., 21.11–82R
Weather anomalies
  Wallen, C. C., 21.7–35
Weather broadcasting
  Thomas, C., 21.2–35
Weather broadcasts
  U. S. Naval Oceanographic Office, 21.6–129
Weather changes
  Comes, V. et al., 21.4–340
Weather chart transmission
  Ambrózy, P., 21.7–73
Weather charts, Southern Hemisphere
  South Africa. Weather Bureau, 21.11–58R
Weather classification
  Schuepp, M., 21.3–448
Weather computer programs
  Hollenbaugh, G. W. et al., 21.3–106
Weather conditions
  Kaufeld, L., 21.2–15
  Richards, K. G., 21.9–38
  Wilser, O., 21.5–72
  Zavatti, S., 21.2–288
Weather conditions, Alps
  Roller, M., 21.9–194R
Weather control research
  Rand Corp., Santa Monica, Calif., 21.1–260
Weather–crop yield effects
  Sirotenko, V. G., 21.9–395
Weather data analysis
  Crosby, F. L., 21.11–454
  Sapozhnikova, S. A., 21.2–301
Weather disasters
  Miller, M. E. et al., 21.7–298
  Wallen, C. C., 21.5–69
Weather economics
  Hogg, W. H., 21.8–680
  Stringer, E. T., 21.8–671
  Taggart, W. J., 21.8–672
  Tyrrell, J. G., 21.8–683
  Wardle, P. A., 21.8–686
Weather economics in Britain
  Taylor, J. A. (ed.), 21.8–673
Weather effects on asthma
  Derrick, E. H., 21.11–466
Weather effects on bees
  Gogorici, E. et al., 21.10–460
Weather effects on birds
  Williamson, K., 21.1–81
Weather effects on cattle
  Schöbesch, O. et al., 21.10–468
Weather effects on crops
  Fedoseev, A. P., 21.1–51
Weather effects on diseases
  Ivanovici, H. et al., 21.11
  467, –468
Weather effects on glaciers
  Wendler, G., 21.3–752
Weather effects on ice formation
  Matheson, K. M., 21.12–2
Weather effects on insect
  Rainey, R. C., 21.1–74
Weather effects on sunflowers
  Tokareva, L. G. et al
  21.9–96
Weather effects on visibility
  Nagel, F., 21.6–671
Weather effects on wheat
  Johnson, W. C., 21.6–654
Weather–evaporation effects
  Kleshchenko, A. D., 21.5
  560; 21.9–279
Weather–farming effects
  Stansfield, J. M., 21.8–675
Weather forecast accurac
  Ashford, O. M., 21.11–2
Weather forecasting
  Atkinson, B. W., 21.6–12
  Blanchet, J., 21.3–286, –28
  George, J. J., 21.8–79
  Sevalkina, N. A., 21.2–33
  Smagorinsky, J., 21.3–27
  Snellman, L. W., 21.3–22
  Soldatkina, A. M., 21.1-
  234
Weather forecasting accuracy
  Lorenz, E. N., 21.2–32
Weather forecasting and national economy
  Koppany, G. et al., 21.10
  115
Weather forecasting correlation
  Khvostova, R. N., 21.1–21
Weather forecasting evaluation
  Roberts, C. F., 21.9–105
Weather forecasting in Africa
  Gornung, M. B., 21.12–1

Weather forecasting instruments
Sager, R. M. et al., 21.3-175
Weather forecasting manuals
U. S. Air Weather Service, 21.3-289
Weather forecasting progress
Kerr-Smith, M. W., 21.10-62
Weather forecasting research
Klein, W. H., 21.11-108
Weather forecasting services
Thompson, J. C., 21.5-148
Weather forecasting textbooks
Zverev, A. S., 21.2-36
Weather forecasts
Ashford, O. M., 21.11-1
Maunder, W. J., 21.1-213
Weather forecasts economics
Murphy, A. H., 21.6-148
Weather hazard costs
Taylor, J. A., 21.8-674
Weather instrumentation
Mani, A., 21.3-174
Weather modeling research
Greenfield, S. M., 21.8-121
Weather modification
Appleman, H. S., 21.3-297; 21.4-31
Atkinson, B. W., 21.6-127
Battan, L. J., 21.1-226; 21.2-43
Budilova, E. P., 21.11-7R
Cantu, V., 21.8-117
Chisholm, J. et al., 21.6-151
Fletcher, J. O., 21.4-33
Gaivoronskiĭ, I. I. et al., 21.7-119
Gates, D., 21.11-131
Greenfield, S. M., 21.8-121
Hoffer, T. E. et al., 21.5-582
Hurley, P. A., 21.3-673
Mallinger, W. D., 21.12-26R
Mason, B. J., 21.8-119
Morachevskiĭ, V. G. et al., 21.6-613
Namias, J., 21.7-110
Parungo, F. P., 21.11-372
Perrin De Brichambaut, Ch., 21.11-134
Serra, A., 21.2-44
Skywater Conference, 3rd, Denver, Colo., Feb. 1968, 21.11-132
Studer, T. A., 21.7-114
Temple, J., 21.2-45
Tribus, M., 21.1-261; 21.11-135
U. S. Environmental Science Services Administration, 21.4-34
Weickmann, H. K., 21.8-120
Williams, M. C., 21.12-182
Weather modification agent, AgI
Cooper, C. F., 21.11-133
Weather modification conferences
Skywater Conference, 4th, Denver, Colo., May 21-28, 1968, 21.10-131
Weather modification–ecology effects
Cooper, C. F., 21.11-133
Weather modification in Uganda
Tewungwa, S., 21.12-23
Weather modification legislation
King, P., 21.3-300
Mann, D. E., 21.3-301
Weather modification projects
Battan, L. J., 21.7-107
Weather modification research
Benton, G. S., 21.7-108
Kelley, N. D., 21.12-179
Nikandrov, V. Ia., 21.9-59R
Sulakvelidze, G. K., 21.12-181
Weather parameter correlation
Sneyers, R., 21.9-19
Weather parameters
Batyreva, O. V., 21.3-277
Weather peculiarities, Japan
Sato, K., 21.10-99R
Weather–physiological effects
Serban, Al. et al., 21.4-123
Weather–plankton effects
Arlando, A. M. et al., 21.3-683
Weather–potato crop relationships
Tyrrell, J. G., 21.8-683
Weather potential measurements
Layton, R. G. et al., 21.7-46
Weather radar
Dox, V. J., 21.11-37R
Treussart, H., 21.7-29
U. S. Weather Bureau, 21.6--46
Weather radar applications
Atlas, D., 21.6-39
Hardy, K. et al., 21.6-42
Kapovits, A., 21.3-87
Marshall, J. S., 21.8-72
Weather reconnaissance systems
Chappell, R. G., 21.7-12
Weather records
Booth, A. L. et al., 21.5-52
Weather report decoding
Hollenbaugh, G. W. et al., 21.3-106
Weather reports
Kravchenko, I. V., 21.3-113
Visconti, I. et al., 21.4-25
Weather routing of ships
Abuziarov, Z. K., 21.1-258
Braddock, R. D., 21.6-1
Kruhl, H., 21.11-130
Lifshits, V. M., 21.2-783
Mayl, S. D., 21.3-21
Weather–sea interaction
Orlando, A. M. et al., 21.3-683
Weather ship activities
Cook, A. K., 21.10-55
Freckleton, H. J., 21.5-85
Weather ship data
Netherlands, 21.8-33
Weather ship *M*
Andersson, T., 21.7-608
Weather suicide rate relationships
Schramm, P., 21.2-329

Weather summaries
- Hisdal, V., 21.12–49
- Posey, J. W., 21.4–98
- South Africa. Weather Bureau, 21.5–77

Weather–sunflowers effects
- Mel'nik, Iu. S., 21.9–385

Weather types
- Casanova, H., 21.12–371
- Kaufeld, L., 21.3–445
- Perry, A., 21.4–358

Weather types studies
- De Felice, P., 21.12–465

Weather–yeast fermentation effects
- Bortels, H., 21.7–461

Weathering
- Porter, S. C., 21.5–17
- Washburn, A. L., 21.10–14

Weathering of rocks
- Gardner, J., 21.8–441

Weatherwork criteria
- Smith, C. V., 21.8–670

Weekly precipitation variations
- Walters, E. V., 21.8–400

Weirs
- Gonzalez, D. D., 21.12–710
- Smith, C. D. et al., 21.9–577
- Smith, K. et al., 21.8–777

Well discharge
- Eipre, T. F., 21.11–729
- Norris, S. E. et al., 21.4–562

Well temperatures
- Adolphson, D. G., 21.2–557

Well water level measurements
- Kelly, T. E., 21.10–690
- Loeltz, O. J., 21.10–691

Wells
- Agerstrand, T., 21.4–532
- Clarke, F. E. et al., 21.3–709

Westerly waves
- Fox, T., 21.7–616

Wet tropics
- Davies, E., 21.11–671

Wheat crops
- Kibardin, R. E., 21.3–292

Wheat ecology
- Williams, G. D. V., 21.6–435

Wheat field microclimatology
- Smolík, Z., 21.7–679

Wheat field micrometeorology
- Denmead, O. T., 21.5–669

Wheat rust
- Hogg, W. H. et al., 21.8–545

Wheat yield
- Thompson, L. M., 21.9–400

Wheat yield forecasting
- Ponomarev, B. P. et al., 21.6–146

Whistler absorption
- Taylor, H. A., Jr. et al., 21.10–493

Whistler investigations
- Lacoume, J. L., 21.10–545

Whistler–magnetic relationships
- Bossolasco, M. et al., 21.2–378

Whistler polarization
- Lacoume, J. L., 21.10–545

Whistler propagation
- Bossolasco, M. et al., 21.7–721

Whistler properties
- Bossolasco, M. et al., 21.2–378

Whistler types
- Gurnett, D. A., 21.11–543

Whistlers
- Helliwell, R. A., 21.10–540

Whistlers–lightning discharge relationships
- Bossolasco, M. et al., 21.7–721

Whistlers–weather relationships
- Bossolasco, M. et al., 21.7–721

Whitecaps
- Garner, D. M., 21.11–777
- Monahan, E. C., 21.6–799; 21.11–778

Wilson effect in sunspots
- Jensen, E. et al., 21.6–723
- Wilson, P. R. et al., 21.8–769

Wind
- Goldman, J. L. et al., 21.3–255

Wind analysis
- Anekeeva, L. A., 21.3–253

Wind and temperature profiles
- Tantawy, A. H. I., 21.7–449

Wind and wave atlas of the Black Sea
- Ukraine. Upravlenie Gidrometeorologicheskoĭ Sluzhby, 21.12–779

Wind at sea
- Volkov, Iu. A., 21.7–433

Wind–atmosphere pollution effects
- Munn, R. E., 21.7–148

Wind–atmospheric pollution effects
- Machta, L., 21.9–127

Wind-burning effects
- Sando, R. W., 21.9–263

Wind calculations
- Kogan-Beletskiĭ, G. I. et al., 21.3–586
- Sadokov, V. P., 21.7–465

Wind calculations at sea
- Sorkina, A. I., 21.11–338, –339
- Veselov, E. P., 21.12–481

Wind charts, 500-mb
- Stoian, R. et al., 21.3–217

Wind chill
- Catchpole, A. J. W., 21.6–425

Wind correlation calculation
- Chubukova, A. L., 21.4–190

Wind current calculations
- Kowalik, Z., 21.4–735

Wind damage
- Mitsuta, Y., 21.10–252

Wind damage to trees
- Budziszewska, E., 21.7–509

Wind data analysis
- Anisimova, T. N., 21.1–505
- Cornett, J. S., 21.1–506
- Doberitz, R., 21.11–329
- Ishizaki, H. et al., 21.10–332
- Serbu, C., 21.3–608
- Skliarov, V. M., 21.1–511
- Sorkina, A. I., 21.11–338

Wind data interpolation
- Kagan, R. L., 21.2–221

Wind data processing
- Pallmann, A. J., 21.4–230

Wind-deformed trees
Kayane, I., 21.8–337
Wind determination accuracies
Rybakov, E. T., 21.12–41
Wind direction
Kayane, I., 21.8–337
Slaby, S., 21.8–335
Wind direction instruments
Godet, P. A. M., 21.6–80
Sasyō, Y., 21.7–51
Wind direction variability
Van Der Hoven, I., 21.1–514
Wind distribution
Akhmetov, M. S., 21.7–489
Cristodor, E. et al., 21.4–213
Horney, G., 21.6–492
Skliarov, V. M., 21.11–337
Wind distribution over sea
Onishi, G., 21.4–214
Wind-driven currents
Davtian, N. A., 21.12–717
Gudkov, G. D., 21.6–797
Hantel, M., 21.4–734
Wind-driven lakes circulation
Rao, D. B., 21.12–482
Wind-driven ocean circulation
Aagaard, K., 21.12–757
Hantel, M., 21.4–734
Latun, V. S., 21.2–760
Wind-driven surface water
Walden, H., 21.9–744
Wind duration frequency analysis
Van Der Hoven, I., 21.1–514
Wind effects
Santomauro, L., 21.1–497
Shirvaikar, V. V. et al., 21.1–498
Wind effects in ionosphere
Stening, R. J., 21.10–194
Sterling, D. L. et al., 21.7–204
Wind effects on balloons
Gringorten, I. I., 21.2–233
Wind effects on buildings
Jones, M. E., 21.4–235
Korbacher, G. K., 21.9–265
Schulz, G., 21.1–526
Wilson, P. H., 21.4–236
Wind effects on clouds
Novozhilov, N. I., 21.1–597
Wind effects on evaporation
Skidmore, E. L. et al., 21.6–549
Wind effects on forest fires
Schroeder, M. J. et al., 21.1–57
Williams, D. T., 21.1–509
Wind effects on gravity waves
Shere, K. D. et al., 21.7–242
Wind effects on irrigation
Allison, S. V., 21.7–500
Wind effects on lakes
Dornbusch, W., 21.12–716
Monahan, E. C., 21.6–799
Yuen, K. B., 21.7–817
Wind effects on ocean currents
Shapiro, N. B., 21.2–759
Wind effects on ocean temperatures
Samoĭlenko, V. S., 21.10–821
Wind effects on oceanic upwelling
Ingham, M. C., 21.12–764
Wind effects on rainfall
Godev, N., 21.7–600
Helbig, A., 21.11–388
Shver, Ts. A., 21.7–591
Wind effects on rime formation
Shver, Ts. A., 21.7–558
Wind effects on rockets
Borsody, J., 21.11–70
Dunaway, G. L., 21.12–65
Seagraves, M. A. B., 21.11–74, –75
Wind effects on sea level
Kruhl, H., 21.6–497
Rao, D. B., 21.4–237
Wind effects on snow
Flemming, G., 21.1–628
Wind effects on structures
Korbacher, G. K., 21.9–265
Roĭtshteĭn, M. M. et al., 21.6–508
Wind effects on waves
MacKinnon, R., 21.6–507
Wind energy utilization
Crabbe, M., 21.6–495
Wind erosion
Morgan, M. A., 21.1–772
Wind erosion of shores
Shuĭskiĭ, Iu. D., 21.3–622
Wind estimates
Mancuso, R. L. et al., 21.3–69
Novak, C. S., 21.3–71
Wind evaporation effects
Acharya, C. L. et al., 21.5–552
Wind field above oceans
Ruggles, K. W., 21.1–503
Veselov, E. P., 21.1–504
Wind field calculation
Mineeva, M. N., 21.1–501
Moore, D. J. et al., 21.5–273
Wind field over oceans
Hamburg. Deutsches Hydrographisches Institut, 21.11–770
Wind field over sea
Efimov, V. V. et al., 21.6–496
Wind flood levels
Sapozhnikov, V. I., 21.12–156
Wind fluctuations
Ishizaki, H. et al., 21.10–332
Wind forecast verification
Glahn, H. R., 21.12–139
Wind forecasting
Bodolai, I. et al., 21.10–106
Wind frequency data
Great Britain. Meteorological Office, 21.11–341
Morley, T. J., 21.4–217
Zambia, 21.5–514
Wind friction
Ertel, H., 21.5–502
Godev, N., 21.5–537
Wind–frost effects
Gukhov, V. G., 21.3–617
Wind–geostrophic wind speed relationships
Belinskiĭ, O. N., 21.12–477

Wind instrumentation
  Stanhill, G., 21.3–186
Wind instruments
  Bernstein, T. et al., 21.6–79
  Kirchner, S., 21.1–185
  Ratcliffe, C. A., 21.12–94
  Titus, R. W., 21.1–180
  Torochkov, V. Ku., 21.5–125, –126
Wind–ionosphere effects
  Duncan, R. A., 21.9–155
  Gershman, B. N. et al., 21.8–175
  Layzer, D., 21.10–173
Wind load on structures
  Fichtl, G. H. et al., 21.8–330
Wind load on wires
  Timofeev, N. T., 21.4–218
Wind measurement at sea
  Kestner, A. P., 21.6–83
  Marcus, S. O., Jr., 21.6–498
  Peep, M. et al., 21.6–82
Wind measurement errors
  Hathorn, J. W., 21.3–170
  Horn, J. D., 21.1–179
Wind measurement from satellite
  Shifrin, K. S., 21.11–20R
Wind measurement techniques
  Godin, J. U., 21.12–82
  Hanna, S. R. et al., 21.5–252
  James, D. G. et al., 21.1–104
  Krechmer, M. V., 21.10–29R
  Montgomery, A. J., 21.6–13
  Rijkoort, P. J., 21.12–466
  Yokoyama, O., 21.4–219
Wind measurements
  Atlas, D., 21.3–68
  D'Arcy, E. M. et al., 21.3–142
  Torochkov, V. Iu., 21.4–189
Wind patterns
  Cristodor, E. et al., 21.4–213
Wind pressure instruments
  Kestner, A. P., 21.6–83
Wind pressure on structures
  Roĭtshteĭn, M. M. et al., 21.6–508
Wind pressure variability
  Todaro, C., 21.2–353
Wind probabilities
  Hops, J. R. et al., 21.7–292
  Van Der Hoven, I., 21.1–514
Wind probability
  Neumann, C. J., 21.3–464
Wind profile
  Rijkoort, P. J., 21.12–85
Wind profile above sea
  Kuznetsov, O. A., 21.9–50R
  Lettau, B., 21.6–502
Wind profile analysis
  Blackadar, A. K., 21.7–499
  Borisenko, M. M. et al., 21.4–223
  Dolgushin, I. P., 21.2–229
  Kopácek, J., 21.7–87
  Kozlov, Iu. N., 21.11–344
  Lettau, H. H., 21.12–358
  Stearns, C. R., 21.12–359
  Ubushaev, V. N. et al., 21.4–226
Wind profile calculations
  Gerstmann, W., 21.10–337
  Shimanuki, A., 21.6–505
  Solokha, T. F., 21.1–523
  Szepesi, D., 21.6–506
Wind profile forecasting
  Scoggins, J. R., 21.11–230
Wind profile measurement techniques
  Rider, L. J. et al., 21.1–522
Wind profile measurements
  Fox, H. L., 21.6–27
Wind profile over seas
  Ruggles, K. W., 21.1–503
Wind profile theories
  Blackadar, A. K. et al., 21.1–357
Wind profiles
  Bradley, E. F., 21.1–519
  Clayton, W. H. et al., 21.6–8
  Katkova, T. F., 21.11–335
  Taylor, P. A., 21.1–524
  Weller, G. E., 21.10–339
Wind profiles in orchar
  Randall, J. M., 21.6–503
Wind pulsations
  Kusano, K. et al., 21.6–471
  Stanev, Sv. et al., 21.1–5
Wind regime
  Anapol'skaia, L. E. et a
  21.4–212, –215, –216
  Crabbe, M., 21.6–495
  Dettwiller, J., 21.1–507
  Dolgushin, I. P., 21.2–2
  Horney, G., 21.6–492
  Katkova, T. F., 21.11–3
  Maeder, F., 21.3–605
  Ozorai, Z., 21.7–490
  Procacci, A., 21.8–336
  Serbu, C., 21.3–608
  Skliarov, V. M., 21.11–3
  Timofeev, N. T., 21.4–2
Wind–reservoir level effects
  Iaroslavtsev, N. A. et a
  21.10–768
Wind–rime effects
  Timofeev, N. T., 21.5–5
Wind roses
  Munn, R. E., 21.7–148
Wind–sea effects
  Kenyon, K. E., 21.8–841
Wind–sea surfaces
  Monahan, E. C., 21.6–7
Wind–seawater effects
  Silva, P., 21.8–845
Wind sensors
  Stengel, R. F., 21.3–191
  Torochkov, V. Iu. et a
  21.9–64
Wind shear
  Armstrong, G. M., 21.
  210
  Kusano, K., 21.10–81R
Wind shear calculation
  Pershina, R. A., 21.11–3
  Shimanuki, A., 21.6–505
Wind shear data
  Grant, S. T., 21.4–12
Wind shear effects
  Brearley, M. N., 21.1–1
  Vasil'ev, A. A. et a
  21.9–254
Wind shear effects on ionospheric ionization
  Fang, D. J., 21.7–181
Wind shear effects on meteor echoes
  McIntosh, B. A., 21.5–6

- **Wind shear theory of poradic-E**
  - Bencze, P., 21.10–153
- **Wind–snow effects**
  - Ivanov, V. B., 21.6–618
- **Wind–space vehicle effects**
  - Goldman, J. L. et al., 21.3–255
- **Vind spectra**
  - Cornett, J. S., 21.1–506
- **Vind spectra estimation**
  - Maynard, H. W. et al., 21.3–606
  - Oort, A. H., 21.3–417
- **Vind speed**
  - Elbashan, D., 21.11–340
- **Vind speed in Israel**
  - Elbashan, D., 21.11–343
- **Vind speed over oceans**
  - Kaganskiĭ, A. S. et al., 21.2–172
- **Vind speed profiles**
  - Borisenko, M. M. et al., 21.4–222
  - Endlich, R. M. et al., 21.3–616
  - Glukhov, V. G., 21.3–617
  - Oura, H., 21.2–232
- **Vind speed profiles neasurements**
  - Kliuchnikova, L. A. et al., 21.6–10
- **Vind speed–roughness ffects**
  - Bradshaw, P., 21.7–238
- **Vind speed spectra**
  - Hwang, H. J., 21.5–506
  - Ishizaki, H. et al., 21.10–332
- **Vind speeds parameters t Lod, Israel**
  - Elbashan, D., 21.11–340
- **Vind storms**
  - Mitsuta, Y., 21.10–252
- **Vind stress measurements**
  - Smith, S. D., 21.5–124
- **Vind stress on ice**
  - Schmidt, E., 21.9–264
- **Vind stress on sea ırfaces**
  - Aagaard, K., 21.12–757
  - Fomin, L. M. et al., 21.8–338
  - Nania, A., 21.6–500
- **Vind stress on seawater**
  - Ichiye, T., 21.9–720
  - Makova, V. I., 21.11–346
- **Wind stress on water**
  - Birchfield, G. E., 21.9–266
- **Wind structure**
  - Carlson, A. V. et al., 21.1–480
  - Kogan-Beletskiĭ, G. I. et al., 21.3–586
- **Wind structure studies**
  - Kolbig, J., 21.6–501
- **Wind–temperature relationships**
  - Yamamoto, G. et al., 21.3–591
- **Wind transport**
  - Folger, D. W., 21.12–237
- **Wind transport of dust**
  - Ferguson, W. S. et al., 21.7–142
- **Wind transport of insects**
  - Hurst, G. W., 21.4–233
- **Wind transport of sand**
  - Hanna, S. R., 21.4–232
- **Wind tunnel experiments**
  - Beard, K. V. et al., 21.4–285
  - Camp, D. W. et al., 21.10–69
  - Cermak, J. E., 21.11–232
  - Chamberlain, A. C., 21.1–490
  - Meroney, R. N., 21.11–239
  - Mery, P., 21.6–286
  - Schultz, G., 21.1–526
  - Sokolev, S. D., 21.10–319
  - Volkovitskiĭ, O. A. et al., 21.3–419
- **Wind tunnel testing**
  - Bokhanov, V. E., 21.9–62
- **Wind tunnel turbulence studies**
  - Counihan, J., 21.1–483
- **Wind tunnels**
  - Hallett, J., 21.7–227
- **Wind turbulence**
  - Kawatani, T., 21.12–357
- **Wind vanes**
  - Jones, J. I. P., 21.11–89
  - Yokayama, O., 21.4–219
- **Wind variability**
  - Anisimova, T. N., 21.1–505
  - Cornett, J. S., 21.1–506
  - Ellsaesser, H. W., 21.3–604
  - Maynard, H. W. et al., 21.3–606
  - Monahan, H. H. et al., 21.3–607
- **Wind variation analysis**
  - Try, P. D., 21.2–234
- **Wind vector measurement techniques**
  - Syiko, A. A., 21.9–66
  - Torochkov, V. Iu. et al., 21.5–126
- **Wind vector on rainfall relationship**
  - Rai Sircar, N. C., 21.12–479
- **Wind vector over Madras**
  - Rai Sircar, N. C., 21.12–479
- **Wind velocities**
  - Finn, D. L., 21.3–585
- **Wind velocity distribution**
  - Anapol'skaia, L. E. et al., 21.4–212
- **Wind velocity effects on sky brightness**
  - Raevskiĭ, A. N., 21.2–128
- **Wind velocity equivalents**
  - Walden, H., 21.5–47
- **Wind velocity instruments**
  - Zavadovskiĭ, V. M. et al., 21.9–65
- **Wind velocity measurement errors**
  - Protopopov, N. G., 21.9–63
- **Wind velocity measurements**
  - Fried, D. L., 21.6–9
  - Sandborn, V. A., 21.6–15
- **Wind velocity over sea**
  - Marcus, S. O., Jr., 21.6–498
- **Wind velocity profiles**
  - Peterson, E. W., 21.1–521
- **Wind wave analysis**
  - Glukhovskiĭ, B. Kh., 21.12–778
  - Hess, G. D., 21.2–781
  - Kononkova, G. E. et al., 21.2–784
  - Rzheplinskiĭ, G. V. et al., 21.9–740
  - Von Sweck, O. H., 21.4–752
- **Wind wave calculations**
  - Iaroslavtseva, D. I., 21.6–798

  Matushevskiĭ, G. V., 21.9–741
  Rzheplinskiĭ, G. V. et al., 21.9–740
Wind wave energy spectra
  Matushevskiĭ, G. V., 21.9–741
Wind wave energy transfer
  Mitsuyasu, H., 21.2–782
Wind wave forecasting
  Pore, N. A. et al., 21.4–756
  Yamashita, A. et al., 21.6–329
Wind wave generation
  Davidan, I. N., 21.9–738
  Garner, D. M., 21.11–777
  Hess, G. D., 21.2–781
  Rzheplinskiĭ, G. V. et al., 21.9–740
  Seesholtz, J. R. et al., 21.2–231
Wind wave growth
  Kononkova, G. E. et al., 21.2–784
Wind wave propagation
  Von Sweck, O. H., 21.4–752
Wind–wave relationships
  Efimov, V. V. et al., 21.6–496
  Hogben, N., 21.7–502
  Kitaĭgorodskiĭ, S. A., 21.7–464
  Makova, V. I., 21.11–346
  Ruggles, K. W., 21.1–503
  Steinberg, H. L., 21.3–603
  Stewart, R. W., 21.12–12R
Wind wave research
  Seesholtz, J. R. et al., 21.2–231
Wind wave spectra
  Davidan, I. N., 21.9–738
  Garrett, J., 21.4–751
  Hasselmann, K., 21.12–4R
  Mitsuyasu, H., 21.2–782
Wind waves in shallow water
  Glukhovskiĭ, B. Kh., 21.4–755
Wind waves on reservoirs
  Iaroslavtseva, D. I., 21.6–798
Windbreak effects
  Brown, K. W., 21.4–231
  Guyot, G., 21.6–485
Winds
  Stone, A. H., 21.8–329
Winds, Japan
  Horiuchi, T., 21.10–80R
  Tanaka, K., 21.10–86R
Winds at sea
  Aagaard, K., 21.3–600
  Kruhl, H., 21.6–497
  Raynor, H. W., 21.1–502
Winds over lakes
  Huss, E., 21.3–601
  Steinberg, H. L., 21.3–603
Winds over water surfaces
  Byshev, V. I. et al., 21.4–196
Winter barley cultivation
  Grushka, I. G., 21.2–321, –322
Winter circulation
  Sajnani, P. P., 21.7–497
Winter climatology
  Augulis, R. P., 21.8–370
Winter crops
  Chechik, F. Sh., 21.10–416
  Kulik, M. S., 21.1–653; 21.7–106
Winter 500-mb charts
  Augulis, R. P., 21.8–373
Winter floods
  Mashukov, P. M., 21.9–346
Winter ionospheric absorption anomaly
  Christie, A. D., 21.6–244
  Lauter, E. A., 21.6–233
  Sinno, K. et al., 21.7–202
Winter monsoons
  Kurashima, A., 21.1–512
Winter precipitation
  Kikuchi, R., 21.8–401
  Pedgley, D. E., 21.8–380
  Polishchuk, I. A., 21.5–619
  Smith, M. F., 21.11–391
Winter precipitation fields
  Polishchuk, A. I., 21.9–312
Winter runoff
  Arai, T., 21.8–458
  Komlev, A. M., 21.4–306
Winter snow
  Deleur, M. S., 21.5–629
Winter storms
  Hobbs, P. V. et al., 21.9–202
  Kurtz, E., 21.3–452
Winter stratospheric circulation
  Hirota, T., 21.12–367
Winter–summer temperatures
  Schmidlin, F. J., 21.3–557
Winter temperature forecasting
  Manohin, V., 21.9–97
Winter temperatures
  Gens, M. B., 21.10–311
  Herzog, J., 21.3–554
  Loewe, F., 21.11–306
  Mishchenko, Z. A., 21.
  429
  Shitara, H., 21.8–313
  Sneyers, R., 21.5–483
Winter thunderstorms
  Forchtgott, J., 21.8–232
Winter weather
  Arctic Institute of Nor
  America, 21.8–532
  Canovan, R. A., 21.3–111
  Citrograph [Los Angele
  21.3–115
  Doniaux, R., 21.3–681
  Kibardin, R. E., 21.3–2
  Meyer, L. et al., 21.6–53
  Pope, J., 21.3–114
  Rondy, D. R., 21.4–627
  Sorokina, V. N., 21.11–2
  U. S. Weather Burea
  21.2–16
Winter weather, Netherlands (1968–1969)
  Ten Kate, H., 21.5–71
Winter weather, U.S.S.R.
(1968–1969)
  Petrovskiĭ, Iu. S., 21.2–1
Winter weather forecasting
  Manohin, V., 21.9–97
  Strutu, M. et al., 21.5–1
Winter wheat
  Johnson, W. C., 21.6–654
  Sheherbak, L. V., 21.1–1
  Solodovnikova, A. P., 21.
  97
Winter wheat crops
  Smolík, Z., 21.7–679
Winter wheat cultivation
  Miha, I. et al., 21.8–55
  21.9–387
  Pet'kova, V. P., 21.1–53
Wolf numbers
  Mergentaler, J., 21.8–76
  21.11–626
Workman–Reynolds effec
  Johnson, D. A., 21.8–618

World Bank water resources projects
Shoaib, M., 21.11–677
World climate
Fletcher, J., 21.12–572
Kessler, A., 21.9–366
Ko, M. I., 21.12–562
Kotliakov, V. M., 21.4–608
World Meteorological Organization
Bottari, D., 21.3–7
World Weather Program
World Weather Program. U. S. Participation, 21.11–47R
World Weather Watch
Ashford, O. M., 21.11–2
Atkinson, B. W., 21.6–127
Frantzen, A. J., 21.1–65
Hohn, R., 21.1–69
Spohn, C. A., 21.2–4
World Meteorological Organization, WMO Bulletin, 21.1–92; 21.8–13
Würm climate
Frank, A. H. E. et al., 21.8–523

X

X-radiation measurement techniques
Harri, J. et al., 21.2–165
X-ray anisotropy
O'Connell, R. F. et al., 21.10–299
X-ray astronomy
Friedman, H., 21.8–709
Pounds, K. A., 21.6–688
X-ray astronomy studies
Boyd, R. L. F., 21.10–589
Burbidge, G., 21.11–562
Oda, M., 21.8–289
X-ray effects on ionosphere
Edwards, P. J. et al., 21.10–163
Swider, W., Jr., 21.12–310
X-ray emissions
Boldt, E. et al., 21.9–476
X-ray fluxes
Agrawal, P. C. et al., 21.10–588
Bunner, A. N. et al., 21.5–462
Tomlin, S. G., 21.6–415
X-ray instrumentation
Mayer, U. et al., 21.9–237
X-ray measurements
Baxter, A. J. et al., 21.9–474
Matsuoka, M. et al., 21.8–307
X-ray production
Sciama, D. W., 21.9–482
X-ray radiation
Tomlin, S. G., 21.6–415
X-ray radiation measurements
Underwood, J. H., 21.3–187
X-ray sources
Boldt, E. et al., 21.9–476
Bunner, A. N. et al., 21.5–462
Burbidge, G., 21.11–562
Fujimoto, M., 21.11–563
Gratton, L., 21.9–478
Green, D. W. et al., 21.5–463
Kitamura, T. et al., 21.10–592
Thomas, R. M. et al., 21.10–598
X-ray spectrum
Baxter, A. J. et al., 21.9–474
Bleeker, J. A. M. et al., 21.5–461
Boldt, E. A. et al., 21.8–258
Gorenstein, P. et al., 21.2–164
Green, D. W. et al., 21.5–463
Kasturi Rangan, K. et al., 21.9–480
Kitamura, T. et al., 21.10–592
X-ray–upper atmosphere effects
Hinteregger, H. E., 21.6–370
X-rays during solar eclipses
Meisel, D. D., 21.10–285
X-rays during solar flares
Friedman, H., 21.10–280
Svestka, Z., 21.11–640
X-rays emissions on the Sun
Gel'freĭkh, G. B., 21.12–597
X-rays emitted during solar flares
Barletti, R. et al., 21.2–133
Donnelly, R. F., 21.9–541
Sakurai, K., 21.7–384
Teske, R. G. et al., 21.9–228
Van Allen, J. A. et al., 21.2–153

Z

Zeeman effect
Beckers, J. M., 21.12–645, –646
Demin, V. V., 21.9–154
Zero layer in oceans
Cano Lucaya, N., 21.2–738
Zinc in ocean water
Topping, G., 21.9–694
Zodiacal dust
Greenberg, J. M., 21.6–692
Reay, N. K., 21.10–642
Zodiacal light
Fracassini, M. et al., 21.2–452
Zodiacal light intensities
Wolstencroft, R. D. et al., 21.10–643
Zodiacal light studies
Elsaesser, H., 21.2–416
Zonal circulation
Belich, R. B. et al., 21.6–305
Chu, Y. T., 21.1–376
Zonal circulation index
Kato, H., 21.11–246
Ped', D. A., 21.12–368
Zonal circulation variations
Sharov, V., 21.3–437; 21.7–265
Zonal current perturbations
McIntyre, M. E., 21.5–540
Zonal flow
Mattidi, L. E., 21.1–391
Volkova, V. I., 21.11–252
Zonal westerlies
Tsuchiya, I., 21.9–409
Zonal wind components
Henning, D., 21.1–528
Kalugina, T. P. et al., 21.6–493
Zonal wind estimating charts
Facilities for Atmospheric Research [Boulder, Colo.], 21.5–45
Zonal winds
Derome, J. F., 21.3–412

CUMULATIVE GEOGRAPHICAL INDEX

Vol. 21, No. 1–12 (Jan.–Dec. 1970)

(2) PHYSIOGRAPHICAL REGIONS
(213) Tropical Regions, 21.1–383, 462; 21.4–695; 21.5–498, 658
(215) Hemispheres
(215–13) **Southern Hemisphere,** 21.1–280, 391; 21.2–8, 104; 21.3–164, 407, 429, 449, 489; 21.4–93, 273; 21.5–518, 662; 21.6–60, 486; 21.7–266, 279, 282, 318, 451; 21.10–58; 21.11–58R
(215–17) **Northern Hemisphere,** 21.1–220, 226, 317, 373, 378, 386, 391, 392, 531; 21.2–61, 63, 90, 187, 201, 529; 21.3–231, 284, 424, 429, 434, 435, 440; 21.4–92, 99, 162, 163; 21.5–186, 400, 405, 476, 486, 499, 500, 518, 553, 605; 21.6–142, 269, 295, 306, 454, 486, 510, 642, 755; 21.7–266, 279, 282, 302, 669, 672, 729; 21.8–518; 21.9–79, 200, 247, 249, 252, 410, 30R, 158R 166R–170R; 21.10–26, 193, 216, 239, 474; 21.11–154, 155, 244, 246, 253, 254, 348; 21.12–368, 446, 456
(23) Mountains
(234) **Mountains of Europe**
Alps, 21.1–70; 21.3–116, 406, 448, 605; 21.4–284, 293; 21.6–59, 603; 21.7–153, 631; 21.8–422, 424, 429, 459, 544, 561, 806; 21.9–97, 194R; 21.10–782, 785
Eastern Alps, 21.7–684
Hohe Tauern, 21.1–759
Maurienne, 21.7–630
Place Moulin, 21.1–632
Swiss Alps, 21.1–757
Testa Grigia, 21.1–469
Western Alps, 21.5–607
Beskids, 21.8–448; 21.9–324
Bükk, 21.6–441; 21.7–675
Carpathians, 21.2–542; 21.4–526; 21.5–138, 652; 21.6–474, 524, 602; 21.7–509, 684; 21.8–
2
Tatras, 21.5–487, 542; 21.8–
530; 21.10–90R
Lomnice Peak, 21.12–423
Caucasus, 21.7–632; 21.12–488
Mt. Aragats, 21.7–391
Mt. Elbrus, 21.9–215, 216;
21.11–53R
Crimeans, 21.5–427; 21.7–779;
21.8–450; 21.9–401; 21.11–
436, 703
Dolomites, 21.8–352
Erz, 21.6–183, 184
Gorce, 21.6–649
Grande Chartreuse, 21.5–668
Harz, 21.11–403
Jotunheimen, 21.11–744
Mt. Olympus, 21.6–256
Mt. San Salvatore, 21.8–623
Mt. Vitosha, 21.5–590
Savoy Alps, 21.1–760
Tarentaise, 21.1–626
Semenic, 21.3–608
Sudetes, 21.7–684
Taunus, 21.9–297
Urals, 21.3–743; 21.7–558
(235) **Mountains of Asia,** 21.4–216; 21.8–446; 21.9–320
Altai, 21.11–428
Byrranga, 21.7–822
Gissar Range, 21.3–667
Himalayas, 21.2–313; 21.4–128; 21.5–374; 21.10–568; 21.11–
60
Karakoram, 21.4–609; 21.11–
746
Mt. Abu, 21.11–495
Mt. Eniwa, 21.2–269
Mt. Fuji, 21.7–517; 21.12–514
Sayan, 21.4–215
(235.21) Tien Shan, 21.1–644; 21.5–586
Dzungarian Ala-Tau, 21.2–626; 21.7–642
Naugarzan, 21.11–411

Trans-Ili Ala Tau, 21.1–418; 21.3–568, 661; 21.4–261; 21.5–636; 21.6–550; 21.7–637; 21.11–443; 21.12–46, 47, 453, 538
Western Tien Shan, 21.11–394, 405, 409, 413
(236) **Mountains of Africa**
Ruwenzori, 21.1–763
(237) **Mountains of North America,** 21.2–314
Adirondacks, 21.10–413
Appalachians, 21.8–455
Brooks Range, 21.3–752
Canadian Rockies, 21.8–441
Cascades, 21.7–284; 21.9–202, 437
Coast Mts., 21.4–174
Elk Mt., 21.11–143
Mt. Washington, 21.1–204; 21.7–414
Mt. Wrangell, 21.8–546
Park Range, 21.9–113; 21.11–148, 149
Plateau Mt., 21.11–757
Rockies, 21.6–528; 21.8–339; 21.10–223, 575; 21.12–529
St. Elias, 21.7–428, 633, 634, 686, 823; 21.9–381, 382
San Juan, 21.12–194, 195
Santa Catalina, 21.4–298
Wasatch Range, 21.4–565
White Mts., California, 21.11–223
White Mt. Peak, 21.2–117
White Mts., New Hampshire, 21.2–323
(238) **Mountains of South America**
Andes, 21.5–618
(239) **Mountains of Oceania**
Kaweka, 21.7–601
Southern Alps, 21.7–445
(26) OCEANS, SEAS, AND INTERCONNECTIONS, 21.3–692
(261) **Atlantic Ocean,** 21.1–225, 250, 275, 734; 21.2–730, 764, 765; 21.3–119, 242, 461; 21.4–82, 678, 729, 773; 21.5–70, 419; 21.6–165, 195; 21.7–843; 21.8–600, 601, 849; 21.9–742, 171R; 21.10–453; 21.11–773; 21.12–330, 403
(261:213) Tropical Atlantic, 21.1–42; 21.2–719; 21.3–469, 763; 21.4–106, 167, 270, 718, 720, 731; 21.5–4; 21.6–318, 452, 502; 21.7–484, 832; 21.10–794, 819; 21.11–329
(261.1) North Atlantic, 21.1–100, 253, 722, 723; 21.2–98, 172, 174, 210, 663, 674, 744, 751, 785; 21.3–677, 750, 778, 786; 21.4–101, 184, 668, 733, 757; 21.5–793; 21.6–290, 332, 529; 21.7–486, 502; 21.8–33, 172, 811; 21.9–95, 245, 377, 407, 668, 685, 703, 710, 715, 733, 176R, 181R; 21.10–804, 806, 823, 828; 21.11–17, 112, 130, 259–261, 722, 60R, 61R, 64R; 21.12–237, 252, 454, 752, 776, 780, 8R
Denmark Strait, 21.3–793
(261.2) Northeast Atlantic, 21.2–780; 21.3–572; 21.4–767; 21.6–606; 21.7–306, 841; 21.8–33, 153; 21.9–726; 21.10–826
(261.24) Baltic Sea, 21.1–765; 21.3–622, 792; 21.4–679, 735, 753; 21.6–195, 671, 796; 21.7–133, 481; 21.8–839; 21.9–669, 708, 179R, 180R; 21.10–792; 21.11–784, 785; 21.12–52, 747
Klaipeda Channel, 21.9–203
(261.242) Gulf of Bothnia, 21.12–747
(261.244) Gulf of Riga, 21.4–656
(261.248) Kattegat, 21.4–782
(261.26) North Sea, 21.2–334; 21.3–797; 21.4–769; 21.5–604; 21.6–671; 21.9–205, 178R–180R; 21.10–117, 810; 21.11–61R
Wadden Sea, 21.2–723
(261.262) German Bight and Friesian Island Waters, 21.2–767; 21.6–497; 21.9–744; 21.11–770
(261.263) Skagerrak, 21.1–724; 21.8–818
(261.268) English Channel, 21.2–787; 21.4–685, 769; 21.10–791
Bay of the Seine, 21.2–728
(261.27) Irish Sea and Coastal Waters of West British Isles, 21.4–719, 769
(261.274) Irish Sea (Central) and Coastal Waters of West British Isles, 21.2–799
Morecambe Bay, 21.7–325
(261.28) Bay of Biscay, 21.2–798; 21.4–709; 21.8–820
Gulf of Gascony, 21.1–742
(261.4) Northwest Atlantic, 21.1–251; 21.2–252, 681, 733, 750, 793; 21.3–219; 21.4–737, 738; 21.6–326, 352, 834, 845, 846; 21.8–

507, 843; 21.9–697, 698, 732, 177R; 21.10–815, 825; 21.11–59, 265, 790; 21.12–14, 698, 802
  Cabot Strait, 21.2–673
(261.42) Davis Strait, 21.9–172R
(261.43) Sea of Labrador, 21.9–172R
(261.44) Gulf of St. Lawrence, 21.2–797; 21.7–835; 21.9–173R, 174R; 21.12–21
(261.45) Gulf of Maine, 21.2–721
(261.46) Coastal Waters of Northeast U.S., 21.1–44, 503, 576; 21.4–708; 21.5–793; 21.7–835; 21.11–769
  Buzzards Bay, 21.2–686
  Long Island Sound, 21.12–373
  Massachusetts Bay, 21.4–778
  Rhode Island Sound, 21.4–722
(261.48) Coastal Waters of Southeast U.S., 21.5–231; 21.11–786
(261.5) South Atlantic, 21.2–681; 21.11–762; 21.12–737
(261.6) West and Southwest Atlantic, 21.1–160, 403, 743; 21.2–679, 685, 740, 749, 771, 773, 793; 21.3–20, 264, 496, 794; 21.5–5, 231; 21.7–273, 289, 832; 21.8–10, 27; 21.9–735; 21.10–822; 21.11–65; 21.12–224, 366
(261.6–15) West Atlantic, 21.12–763
(261.62) Sargasso Sea, 21.1–732; 21.3–798; 21.4–680
(261.63) Bahama Sea, 21.2–689; 21.12–772
(261.638) Florida Strait, 21.2–756; 21.4–715
(261.64) Gulf of Mexico, 21.1–737; 21.2–658; 21.3–458, 464; 21.4–104, 272; 21.5–798; 21.6–334; 21.9–729; 21.10–795; 21.12–751, 800, 804
(261.65) Caribbean Sea, 21.2–661, 672, 683; 21.4–721; 21.7–278; 21.9–729; 21.12–374, 734, 738, 804
  Cayman Trench, 21.2–216
(261.66) Coastal Waters of Northeast South America, 21.1–720
(261.67) Coastal Waters of East Brazil, 21.1–720; 21.8–845; 21.9–728
(261.7) East and Southeast Atlantic, 21.4–712; 21.10–807
(261.7–11) East Atlantic, 21.2–675, 676
(261.74) Coastal Waters of West Africa, 21.4–713; 21.10–816
(261.76) Gulf of Guinea, 21.1–754; 21.3–763, 773, 774; 21.4–691; 21.12–764
(261.77) Coastal Waters of West Equatorial Africa, 21.1–721
(261.78) Coastal Waters of Southwest Africa and West South Africa, 21.4–741; 21.6–843
(262) **Mediterranean Sea,** 21.1–722, 723; 21.2–766; 21.3–771; 21.4–663, 706, 757, 775; 21.8–343, 600
(262.1) Western Mediterranean, 21.2–675, 676; 21.3–777; 21.4–712; 21.10–807
  Gulf of Stora, 21.2–729
(262.112) Strait of Gibraltar, 21.2–752; 21.9–749
(262.113) Alboran Sea, 21.2–738
(262.116) Ligurian Sea, 21.8–850
  Gulf of Genoa, 21.1–398
(262.13) Tyrrhenian Sea, 21.2–745; 21.7–848
  Gulf of Naples, 21.1–351
(262.2) Eastern Mediterranean, 21.1–739; 21.2–95; 21.4–657; 21.7–830; 21.8–793; 21.10–793, 830; 21.11–218
(262.26) Coastal Waters of East Tunisia and Libya, 21.6–253; 21.12–451
(262.3) Adriatic Sea, 21.1–739; 21.2–656, 657; 21.5–516; 21.6–429, 500; 21.12–375
(262.32) Gulf of Venice, 21.7–102; 21.9–747
(262.5) Black Sea, 21.2–677, 706, 742; 21.3–739, 771; 21.4–161, 654, 663, 777; 21.6–429; 21.9–709, 740; 21.11–760; 21.12–779, 797
(262.54) Sea of Azov, 21.4–656
(262.8) Inner Seas of Eurasia
  Dead Sea, 21.2–303
(262.81) Caspian Sea, 21.1–252; 21.2–212, 776; 21.3–77; 21.4–181, 633, 651, 746; 21.7–524; 21.8–848; 21.9–740; 21.11–788, 19R
(262.83) Aral Sea, 21.9–678, 680, 682, 727
(265) **Pacific Ocean,** 21.1–751; 21.2–60, 97, 219, 356, 644, 724; 21.3–422, 770; 21.4–43, 44, 134, 628, 716, 736, 743; 21.5–240, 362; 21.7–843; 21.8–816; 21.9–108, 114, 165, 695, 721, 18R, 55R, 186R, 190R; 21.10–447, 453, 820; 21.11–12R
(265:213) Tropical Pacific, 21.2–208; 21.4–2, 3, 94, 630; 21.5–616; 21.6–139, 181, 366, 589, 592; 21.10–345; 21.11–248

(265.1) East and Southeast Pacific, 21.1–717; 21.2–17, 213, 678, 679, 681; 21.4–698, 772; 21.9–713, 731, 748; 21.10–821
(265.1–11) East Pacific, 21.4–108; 21.6–604
(265.1–12) Southeast Pacific, 21.11–203
(265.15) Gulf of Panama, 21.5–795
  Panama Basin, 21.8–826
(265.17) Gulf of California, 21.6–830; 21.12–745, 770
(265.2) North and Northeast Pacific, 21.1–728, 729; 21.2–665, 793; 21.3–219, 677, 784; 21.4–696, 725; 21.7–110, 674; 21.10–249; 21.12–773
(265.2–17) North Pacific, 21.2–215; 21.3–778; 21.5–492, 796; 21.7–142, 846; 21.8–49; 21.9–719, 39R, 187R–189R; 21.10–812, 834; 21.11–55, 112, 260
(265.2–18) Northeast Pacific, 21.2–693; 21.3–452; 21.4–779; 21.10–246; 21.12–753
(265.22) Coastal Waters of West U.S., 21.1–718, 719, 741, 755; 21.2–680, 694, 701, 725, 727, 766, 774; 21.3–782; 21.4–39, 660, 672, 771; 21.5–797; 21.6–844; 21.7–460, 847; 21.8–814; 21.9–684, 704, 720, 724; 21.10–818; 21.12–767, 774
  Coos Bay, 21.12–806
  San Francisco Bay, 21.4–225
  Yaquina Bay, 21.9–243
(265.23) Coastal Waters of Alaska and Canada, 21.1–502, 733; 21.2–703; 21.10–825
(265.24) Gulf of Alaska, 21.2–343; 21.6–302
(265.5) West and Northwest Pacific, 21.4–717; 21.8–829; 21.9–104
(265.5–15) West Pacific, 21.2–755; 21.6–331, 340; 21.7–269
(265.5–16) Northwest Pacific, 21.1–402, 749; 21.2–788, 790; 21.3–775, 789; 21.4–160, 185, 688, 723, 726, 764; 21.5–10, 66, 219, 791; 21.6–329, 847; 21.7–129, 849; 21.8–819, 830; 21.9–702, 743; 21.10–802, 803, 814, 817; 21.11–775; 21.12–760, 765, 766, 768, 781, 788–790
(265.51) Bering Sea, 21.1–12; 21.2–637; 21.11–330
(265.53) Sea of Okhotsk, 21.1–573; 21.2–643, 800; 21.3–776, 795, 799; 21.9–191R
(265.54) Sea of Japan, 21.2–669; 21.4–686, 724; 21.5–169; 21.6–322, 590; 21.9–716; 21.12–346
(265.546) Tatary Strait, 21.9–98R
(265.55) Seas (inland) of Japan
  Hokkaido, 21.9–191R
  Seto Sea, 21.12–761
(265.56) Yellow Sea, 21.2–669, 796; 21.9–673
(265.57) East China Sea, 21.2–669, 796; 21.4–745; 21.6–140, 335; 21.9–673
(265.7) South and Southwest Pacific, 21.2–670, 671, 726, 732; 21.3–100, 796; 21.4–694, 742; 21.5–426; 21.6–248; 21.7–845; 21.9–730; 21.10–250, 827
(265.7–13) South Pacific, 21.9–705; 21.12–737
(265.72) South China Sea, 21.4–95, 762, 765; 21.6–335; 21.10–111
(265.723) Gulf of Siam, 21.3–772
(265.7–14) Southwest Pacific, 21.1–401
(265.76) Coral Sea, 21.2–754; 21.10–444
(265.78) Tasman Sea, 21.2–748, 754, 757; 21.4–749; 21.11–771
(265.782) Seas, Gulfs, and Bays of New South Wales Coast, 21.2–668
(267) **Indian Ocean,** 21.3–611, 612; 21.4–43, 674; 21.5–420; 21.7–36, 295; 21.8–844; 21.12–349, 737, 754, 11R, 13R
(267:213) Tropical Indian Ocean, 21.4–705; 21.10–369
(267–13) South Indian Ocean, 21.4–37; 21.12–737
(267.2) West and Southwest Indian Ocean, 21.1–379, 533; 21.6–746
(267.2–14) Southwest Indian Ocean, 21.12–380
(267.24) Coastal Waters of South and Southeast Africa, 21.4–741; 21.11–762
(267.25) Mozambique Channel, 21.1–744; 21.3–762; 21.7–833
(267.26) Coastal Waters of East Africa, 21.1–740; 21.2–211
(267.3) Northwest Indian Ocean, 21.2–667, 705, 743, 753; 21.4–704, 734; 21.9–51
(267.32) Gulf of Aden, 21.4–304
(267.33) Red Sea, 21.4–657; 21.12–762
(267.37) Arabian Sea, 21.2–106, 746; 21.4–304; 21.5–512; 21.6–502, 534; 21.8–229; 21.10–336, 832

(267.6) Northeast Indian Ocean, 21.2–705; 21.4–704; 21.6–331; 21.9–51
(267.64) Bay of Bengal, 21.3–225; 21.6–330, 335; 21.7–296, 493; 21.8–392
(267.657) Malacca Strait, 21.11–62R
(267.7) East and Southeast Indian Ocean, 21.1–738; 21.8–830
(267.75) Coastal Waters of West Australia, 21.2–768
(268) **Arctic Ocean,** 21.2–108, 635, 636, 708, 741, 751; 21.4–612, 614, 707, 744; 21.5–367, 433; 21.6–820; 21.7–826, 828; 21.8–827, 828; 21.9–264, 736, 182R, 184R, 185R; 21.11–755; 21.12–410, 720
(268.4) European Arctic, 21.2–674; 21.10–826; 21.12–728, 732
(268.42) Greenland Sea, 21.9–670; 21.12–757
(268.428) Denmark Strait, 21.4–757
(268.43) Norwegian Sea, 21.1–722, 723; 21.3–29, 572, 600; 21.4–640; 21.6–832; 21.7–608; 21.10–824; 21.11–758; 21.12–756, 757
(268.45) Barents Sea, 21.2–664; 21.4–768; 21.9–740; 21.10–804
  Kola Gulf, 21.10–113
(268.46) White Sea, 21.1–236, 504; 21.12–481
(268.52) Kara Sea, 21.2–631, 664; 21.6–821, 828; 21.10–805
(268.53) Laptev Sea, 21.2–189; 21.4–623
(268.55) East Siberian Sea, 21.4–743
  Tiksi Bay, 21.5–464
(268.56) Chukchi Sea, 21.2–214; 21.4–743
(268.7) American Arctic, 21.2–627, 682; 21.4–618; 21.7–827; 21.8–811
  Tanquary Fiord, 21.5–445
(268.72) Beaufort Sea, 21.10–370
(268.74) Seas of Canadian Archipelago
  Barrow Strait, 21.9–734
(268.75) Hudson Bay, 21.2–288; 21.9–183R
(268.77) Baffin Bay, 21.4–653; 21.6–831; 21.10–260
(268.78) Lincoln Sea, 21.6–831
(268.9) Arctic Basin, 21.3–677; 21.4–781
(269) **Southern (Antarctic) Ocean,** 21.2–684; 21.3–447, 683; 21.4–43, 620–622, 643, 675–677, 730, 750; 21.6–822, 829; 21.8–42, 527, 583, 808, 810, 817, 830; 21.11–80; 21.12–353, 729, 775
  Alasheev Bay, 21.8–809
(269.43) Scotia Sea, 21.9–711
(269.46) Weddell Sea, 21.2–634; 21.4–642, 644, 758; 21.5–775; 21.9–717
(269.5) Pacific Sector, 21.4–182, 693, 714; 21.6–826
(269.528) Strait of Magellan, 21.2–681
(269.53) Bellingshausen Sea, 21.5–18
(269.56) Ross Sea, 21.4–613, 639; 21.12–771
(269.7) Indian Ocean Sector
  Davis Sea, 21.8–815; 21.12–740
(269.75) Cosmonauts' Sea, 21.6–822
(282.2) RIVERS, BASINS, AND ESTUARIES
(282.24) **European Rivers,** 21.5–646; 21.11–429
  Ai Basin, 21.11–702
  Akhurian, 21.9–672
  Aksai, 21.2–596
  Araks, 21.9–672
  Arda, 21.2–544
  Arno Basin, 21.7–614
  Belaya, 21.2–598
  Bourne, 21.11–431
  Cerna, 21.11–725
  Danube, 21.1–775; 21.4–584; 21.7–785; 21.9–658; 21.12–463, 709
    Danube Basin, 21.9–329
  Desna, 21.11–422; 21.12–666, 670
  Dnieper, 21.4–584; 21.5–769; 21.7–803; 21.12–554, 679
    Dnieper Basin, 21.11–432
  Dniester, 21.4–581; 21.12–463, 678, 680
  Don, 21.12–705
    Don Basin, 21.4–527; 21.11–685
  Donets, 21.9–43R
  Drina, 21.7–785
  Dunajec Basin, 21.4–524
  Eider, 21.4–625
  Elbe, 21.4–624
  Jiu Basin, 21.4–548; 21.6–639
  Kola Basin, 21.6–538
  Kolkhida Basin, 21.9–587
  Kura, 21.12–706
  Labe, 21.2–522; 21.4–523
  Luga, 21.12–711
  Marne, 21.8–796
  Moldova, 21.9–347
  Moskva, 21.4–591
  Neman Basin, 21.10–743
  Neva, 21.4–579
  Nitrica, 21.6–632
  Northern Dvina, 21.2–545

  Odra, 21.2–280
  Okra, 21.2–525
  Pechora, 21.2–543; 21.9–671
  Po, 21.10–705
  Pripyat', 21.4–626
    Pripyat' Basin, 21.12–658
  Prut, 21.12–673, 709
  Rega, 21.2–280
  Rhine, 21.6–784; 21.9–655; 21.10–753; 21.12–695
  Seim, 21.2–536
  Selke Basin, 21.3–674; 21.11–402
  Sola, 21.2–578
  Sozh, 21.12–671
  Tetereva, 21.4–586, 587
  Tisza, 21.2–577; 21.11–422
  Uchma, 21.3–744
  Vistula, 21.2–280
  Vltava, 21.4–523
  Volga, 21.2–525, 628; 21.9–336, 599; 21.12–554
    Volga Basin, 21.11–684
  Warta, 21.2–280; 21.10–701

(282.242) **British Rivers**
  Nar 21.11–722
  Ter, 21.11–722
  Wallop Brook, 21.11–722

(282.25) **Asian Rivers**
  Amur, 21.2–524
    Lower Amur, 21.9–56R
  Ara Basin, 21.11–425, 718
  Baitarani Basin, 21.11–430
  Bikin, 21.2–546
  Brahmaputra, 21.9–608; 21.10–750
  Chilik, 21.4–522
  Dukhant Basin, 21.11–408
  Ganges, 21.9–608
  Irrawaddy, 21.12–677
  Irtysh, 21.2–569
  Kolyma, 21.2–584
  Krishna, 21.8–476
  Lena, 21.2–590; 21.4–615, 616, 623; 21.6–818
  Mekong, 21.2–278
  Ob, 21.11–691
  Parkenstai, 21.9–344
  Pskem Basin, 21.11–406
  Sharyn, 21.4–522
  Syr-Darya, 21.9–346
  Ta Basin, 21.11–712, 715
  Tartas, 21.2–583
  Taz Basin, 21.9–209
  Tendu, 21.2–641
  Turgai, 21.4–578
  Varzob, 21.2–594
  Yenisei, 21.2–541; 21.4–615
  Yura Basin, 21.11–690
  Zeravshan, 21.12–658

(282.27) **North American Rivers,** 21.2–579; 21.4–318
  Blue Creek, 21.2–550
  Boise, 21.10–435
  Carson, 21.2–568
  Clinch, 21.2–597
  Colorado, 21.8–375, 772; 21.10–747
    Colorado Basin, 21.3–673; 21.4–529; 21.5–211; 21.12–194, 195
  Columbia, 21.4–577; 21.6–469; 21.7–804; 21.11–120
    Columbia Basin, 21.4–546
  Delaware, 21.10–758
  Delta, 21.8–812
  Gila, 21.12–702
    Gila Bend Basin, 21.4–531
  Haw, 21.12–699
  Hudson, 21.10–756
  Illinois, 21.2–599
  James, 21.9–350; 21.12–700
  Kansas, 21.6–759
  Lehigh, 21.10–746
  Mackenzie, 21.10–745
  Mississippi, 21.5–754; 21.9–238R
  Missouri, 21.9–573
  Niagara, 21.7–809
  Payette, 21.10–435
  Potomac, 21.1–3; 21.7–799
  Rio Grande, 21.12–710
  Rock, 21.9–609
  St. Lawrence, 21.2–797; 21.8–697
    St. Lawrence Seaway, 21.10–787
  Salmon Falls Creek, 21.10–435
  Sevier, 21.8–375, 775
  Skagit, 21.6–157
  Sleepers, 21.12–697
  Souris, 21.6–780
  South Platte Basin, 21.8–474
  Susquehanna, 21.10–709
  Tennessee, 21.10–743, 21.11–742
    Tennessee Basin, 21.8–412
  Washita, 21.6–781

(282.28) **Rivers of South America**
  Aconcagua, 21.5–764
  Amazon, 21.10–693
  Orinoco, 21.2–591

- Reconquista Basin, 21.6–754
- Upper Capibaribe Basin, 21.4–536

(285) Lakes, Ponds, etc.

(285:4) **European Lakes,** 21.4–602
- Chełmzynskie, 21.6–790
- Constance, 21.3–601
- Druzno, 21.5–645
- Dzhullyrkul', 21.7–532
- Ijssel, 21.2–609
- Ladoga, 21.2–212; 21.4–181
- Ladozhsk, 21.3–77
- Leman, 21.7–520
- Lukoml'skoye, 21.6–797
- Masurian, 21.2–629
- Neusiedl, 21.4–130
- Stechlin, 21.6–501; 21.10–364, 779; 21.12–716
- Ursu-Sovata, 21.7–816
- Zeeland, 21.10–426
- Zurich, 21.3–747

(285:5) **Asian Lakes**
- Agata, 21.4–188
- Baikal, 21.8–421; 21.12–717
- Balkhash, 21.6–789; 21.7–468, 815
- Biwa, 21.9–648
- Dead Sea, 21.4–631
- Kumdykol, 21.10–767
- Moksogollokh, 21.2–617
- Tus-Kyuyel', 21.2–617

(285:7) **North American Lakes**
- Crater, 21.11–220
- Great Lakes, 21.1–128, 619; 21.2–614, 642; 21.4–604, 627; 21.5–628, 744; 21.6–323, 470; 21.7–817, 821; 21.9–266, 244R; 21.11–756
  - Erie, 21.2–527, 618; 21.5–772; 21.8–697; 21.9–660; 21.11–480
    - Toledo Harbor, 21.9–664
  - Huron, 21.2–619
  - Michigan, 21.3–575, 603; 21.4–607; 21.10–213
  - Ontario, 21.1–643; 21.2–616; 21.4–262, 603; 21.6–787, 792; 21.7–540; 21.8–697; 21.9–660; 21.12–482
  - Superior, 21.1–643; 21.7–713
- Hefner, 21.6–468, 539; 21.9–277
- Kluane, 21.10–766
- Mendota, 21.10–764
- Rogers, 21.4–324

(4/5) EURASIA, 21.7–824

(4) EUROPE, 21.1–166; 21.2–18; 21.4–50, 96, 515; 21.5–736; 21.6–512; 21.7–35, 301, 723, 770; 21.8–586; 21.9–377; 21.10–317, 536; 21.11–264; 21.12–485

(4–015) Mediterranean Region, 21.3–361; 21.5–501; 21.9–378; 21.11–453

(4–12) Southeastern Europe, 21.3–361

(4–15) Western Europe, 21.1–59; 21.3–364; 21.7–604; 21.8–565; 21.9–420; 21.11–453, 493; 21.12–551

(4–191.2) Central Europe, 21.1–342; 21.3–361; 21.4–329; 21.5–331, 501; 21.6–215, 442; 21.8–232; 21.10–149, 343

(41) British Isles, 21.1–18, 282, 472; 21.4–229, 358; 21.5–70, 622; 21.6–606; 21.8–153, 363, 385, 674; 21.10–98, 244; 21.11–123

(410) **United Kingdom of Great Britain and Northern Ireland,** 21.1–71; 21.2–185, 647; 21.3–399; 21.5–59; 21.6–394, 447, 655, 661; 21.7–139, 172, 810; 21.8–253, 380, 433; 21.9–67, 115R, 221R, 222R; 21.11–216, 303, 95R; 21.12–215, 229, 234, 442, 17R

(411) Scotland, 21.3–118; 21.8–420, 434
- Edinburgh, 21.8–672; 21.12–512
- Eskdalemuir, 21.3–558; 21.11–315
- Glasgow, 21.4–236; 21.12–246
- Glen Nevis, 21.3–112
- Shetland Isles, 21.4–228; 21.11–90R

(415) Ireland, 21.11–70R

(417) Irish Republic, 21.7–534
- Dublin, 21.4–217
- Valentia, 21.7–553

(420) England, 21.1–616; 21.2–64; 21.3–111, 260; 21.5–490; 21.7–688; 21.8–319, 587; 21.9–396; 21.10–386; 21.11–385, 459; 21.12–101, 19R
- Alconbury, 21.2–334
- Birmingham, 21.8–671
- Blackpool, 21.11–341
- Bracknell, 21.8–629
- Bricket Wood, 21.10–37
- Cardington, 21.10–52, 209
- Carlisle, 21.11–341
- Cottesmore, 21.9–89
- Devon, 21.6–98
- Durham, 21.9–426

- East Anglia, 21.4–102; 21.11–391
- Eastern England, 21.8–82; 21.9–90
- Exeter, 21.11–341
- Grove, 21.4–79
- Kew, 21.1–300; 21.3–23, 95, 96, 99, 138, 172; 21.8–692
- Lincolnshire, 21.2–560
- Little Bookham, 21.10–390
- Littlehampton, 21.1–440
- London, 21.5–248, 261; 21.7–146; 21.8–722; 21.10–142
  - Heathrow Airport, 21.3–473, 687; 21.6–575
- Midlands, 21.8–670
- Mildenhall, 21.1–442; 21.9–87
- Oxford, 21.8–680
- Pembrokeshire, 21.8–683
- Reading, 21.4–203
- Ryde, 21.9–375
- Scilly Isles, 21.1–527
- Southeast England, 21.8–432
- Southwest England, 21.3–114
- Speke Airport, Liverpool, 21.11–341
- Teeside, 21.5–246
- Watnall, 21.11–327
- Winchcombe, 21.6–607
- Wyton, 21.7–439
- Yorkshire, 21.8–360

(429) Wales, 21.1–388; 21.3–260; 21.9–91; 21.10–386; 21.11–385
- Aberfan, 21.6–773
- Aberystwyth, 21.8–673
- Rhoose Airport, Glamorgan, 21.11–341

(430) **Germany,** 21.5–307; 21.6–321, 488; 21.7–579, 708; 21.8–363, 587
- Rhine Valley, 21.1–786; 21.2–327

(430–2.1) Berlin, 21.1–346; 21.2–329; 21.3–549; 21.4–92; 21.6–213; 21.7–34; 21.8–35; 21.11–483
- East Berlin, 21.6–175
- Friedrichshain, 21.1–346
- Tempelhof, 21.10–53

(430.1) Federal Republic of Germany, 21.1–76, 77; 21.3–25, 619; 21.5–172, 268; 21.6–162, 190, 343, 757; 21.7–16, 63, 323, 667, 696; 21.8–220; 21.9–138, 564, 628, 642; 21.11–95R; 21.12–657
- Baden-Wuerttemberg, 21.6–738
- Bavaria, 21.2–293; 21.5–496
- Bremerhaven, 21.2–409
- Cologne Region, 21.9–406
- Darmstadt, 21.5–289
- Frankfurt, 21.6–645
- Freiburg, 21.1–671
- Garching, 21.7–248
- Garmisch-Partenkirchen, 21.1–126; 21.7–685; 21.11–219; 21.12–350
- Geisenheim, 21.6–492
- Gelsenkirchen, 21.5–261
- Hamburg, 21.7–666
- Hohenpeissenberg, 21.4–41; 21.5–319; 21.6–645; 21.7–456, 586
- Karlsruhe, 21.5–761
- Kiel, 21.1–714
- Landsberg, 21.12–546
- Mainz, 21.5–26, 261
- Munich, 21.3–554; 21.7–250; 21.9–259; 21.11–711
- Niedermendig, 21.12–664
- Pforzheim, 21.6–342; 21.12–391
- Regensberg, 21.6–254
- Rosenheim, 21.6–155
- Schmalenbeck, 21.5–478
- Stade, 21.2–197
- Tübingen, 21.6–734
- Wahnbach Reservoir, 21.9–662
- Wank, 21.12–350
- Wankgipfel, 21.11–219
- Weihenstephan, 21.2–19
- Weissenau, 21.3–721; 21.9–432
- Wulfsdorf, 21.5–478
- Zugspitze, 21.11–219; 21.12–350

(430.2) German Democratic Republic, 21.1–207; 21.2–296; 21.3–109; 21.4–342, 344; 21.6–184, 258, 662; 21.8–460; 21.10–6, 103, 120, 395, 473; 21.11–51; 21.12–332, 338
- Bruggen, 21.10–117
- Dresden, 21.5–671; 21.8–627; 21.12–251
- Dresden-Wahnsdorf, 21.6–111
- Fichtelberg, 21.12–279
- Leipzig, 21.11–388
- Lower Lusatia, 21.2–580
- Mecklenburg, 21.3–503
- Meisdorf, 21.8–447
- Odenwald, 21.2–327
- Potsdam, 21.7–2, 226, 320; 21.10–39, 267, 490
- Saxony, 21.1–628
- Thuringia, 21.1–248; 21.5–72

Vogtland, 21.5–72
Wahnsdorf, 21.12–279
(435.9) **Luxembourg,** 21.5–742
(436) **Austria,** 21.1–37; 21.2–293; 21.3–28, 618; 21.4–294; 21.5–580; 21.6–757; 21.8–558; 21.9–390, 193R; 21.11–95R; 21.12–263
Graz, 21.11–176
Kotwies Pool, 21.7–813
Rinn, 21.11–324
Salzburg, 21.8–423
Vienna, 21.3–116; 21.7–466; 21.9–93; 21.11–65R; 21.12–150, 543
Vienna Area, 21.6–59
Waldviertel, 21.12–715
(437) **Czechoslovakia,** 21.3–705; 21.5–8, 597; 21.6–184, 527, 628, 632, 638; 21.7–485; 21.8–531; 21.10–307; 21.11–100R
Bardejov Spa, 21.9–391
Bohemia, 21.2–182; 21.7–151, 702
Bratislava, 21.7–437; 21.10–357
Budkov Observatory, 21.5–728
Moravia, 21.2–182; 21.6–128
Ondřejov, 21.9–518
Ostrava, 21.8–359
Ostrava-Poruba, 21.1–654
Plzen, 21.1–341
Poprad, 21.2–196
Prague, 21.2–196; 21.6–438
Karlov Observatory, 21.8–514
Ruzyne Airport, 21.8–335
Slovakia, 21.3–403, 642; 21.5–495; 21.6–667; 21.11–400
Tatry Airport, 21.9–291
(438) **Poland,** 21.1–48; 21.2–243, 518, 633; 21.4–503, 597; 21.5–643; 21.6–149; 21.7–5, 17, 133, 217, 312, 557; 21.8–493, 525; 21.9–604, 663, 211R, 212R; 21.11–305, 734, 72R, 96R, 97R
Belsk, 21.5–320
Chryzanow County, 21.9–557
Dunajec Basin, 21.8–783
Gorce, 21.6–664
Kasprowy Wierch, 21.5–542
Legionowo, 21.9–318
Poznan, 21.12–230
Roznow Reservoir, 21.6–795
Southern Poland, 21.6–180, 742
Swider, 21.8–629
Swieradow, 21.4–556
Warsaw, 21.4–194; 21.7–222; 21.8–629
Wojcieszow, 21.7–255
(439) **Hungary,** 21.1–64, 165, 344; 21.2–52, 180, 567; 21.3–482, 500; 21.5–6, 287; 21.6–262; 21.9–238, 302, 588, 117R, 205R; 21.10–115, 145; 21.11–479, 707; 21.12–23R
Budapest, 21.5–263; 21.6–196
Ferihegy Airport, 21.3–87; 21.7–490
Dorog, 21.1–788
Lake Balaton Region, 21.3–450
Matraszentlaszlo, 21.6–464
Potharaszt, 21.6–462
(44) **France,** 21.1–67, 273; 21.2–241; 21.4–309; 21.7–117, 124, 306, 808; 21.8–780, 789; 21.9–371, 630, 203R; 21.10–147; 21.11–94R, 95R; 21.12–391, 16R
Bâle-Mulhouse Airport, 21.4–317
Besançon, 21.1–138
Bordeaux, 21.10–582
Brittany, 21.3–679
Carmaux, 21.3–331
Chateauroux, 21.10–51
Col de Porte, 21.6–53; 21.10–403
Garchy, 21.6–514, 515
Haut-Vivarais, 21.8–509
Lacq, 21.5–247
Nantes, 21.8–145
Paris, 21.1–507; 21.3–398; 21.6–460
Orly Airport, 21.6–154
Pic du Midi, 21.9–115
Saint-Santin, 21.9–250
Salses-Leucate Lagoon, 21.10–840
Southeast France, 21.1–769
Southern France, 21.6–672
Thann, 21.10–49
Thonon-les-Bains, 21.6–768
Val-Joyeux, 21.5–149
Velay, 21.8–509
Western France, 21.6–603
(45) **Italy,** 21.1–398; 21.2–353, 531, 662; 21.3–755; 21.5–13; 21.6–55, 577, 741; 21.7–90, 98, 599; 21.8–239, 386, 439, 471; 21.9–639, 653, 126R, 207R; 21.10–18, 711; 21.11–164, 43R; 21.12–618
Ancona, 21.4–638

  Caselle Airport, Turin, 21.5–479
  Central Italy, 21.8–523
  Conegliano, 21.2–114
  Elmas-Cagliari, 21.2–30, 31
  Emilia, 21.5–615
  Fontanarossa Airport, Catania, 21.5–479
  Genoa, 21.2–175; 21.3–577; 21.7–720
  Ispra, 21.3–200
  Lavezze, 21.3–577
  Macerata, 21.1–134; 21.4–377
  Marches, 21.7–313
  Milan, 21.2–55; 21.11–71R
    Brera Observatory, 21.1–135
    Linate, 21.1–240, 315
    Malpensa Airport, 21.2–342
  Mt. Capellino, 21.2–175
  Pesaro, 21.8–316, 336
  Pisa, 21.5–361; 21.10–383
  Po Valley, 21.4–117
  Puglia, 21.9–636
  Roburent, 21.2–378; 21.7–721
  Rome, 21.3–583; 21.7–138
    Ciampino Airport, 21.1–240; 21.5–479
  Sardinia, 21.2–92; 21.5–318
    Cagliari, 21.7–170
  Salentina Peninsula, 21.9–646
  Sauze d'Oulx, 21.2–268
  Sicily, 21.8–793
  Southern Italy, 21.5–565
  Trino Vercellese, 21.7–448; 21.11–127
46) **Spain,** 21.1–43; 21.4–309; 21.6–774; 21.9–597, 638, 218R, 219R; 21.11–77R, 95R, 103R
  Barcelona, 21.6–767
  Canary Islands, 21.4–89; 21.7–513
  Ebro Observatory, 21.8–206
  Granada, 21.2–279
  Izana, Tenerife, 21.7–127
  Madrid, 21.9–216R, 217R
469) **Portugal,** 21.3–110; 21.11–73R–76R
  Azores, 21.2–623
  Madeira, 21.7–513
7 + 57) **Union of Soviet Socialist Republics,** 21.1–78, 298, 505, 517, 599, 613, 725; 21.2–99, 183, 239, 240, 301, 325, 523, 547, 573, 582, 654; 21.3–72, 113, 125, 268, 551, 671, 761; 21.4–91, 291, 346, 617; 21.5–145, 213, 430, 561, 562, 779, 783; 21.6–437, 448, 488, 609, 610; 21.7–107, 108, 177, 299, 304, 429, 442, 506, 533, 605, 611, 635, 636, 644, 673, 687, 689, 774; 21.8–587, 589, 606; 21.9–6, 43, 98, 144, 145, 244, 245, 253, 256, 275, 312, 337, 364, 462, 674, 53R, 62R; 21.10–314, 677, 710, 712; 21.11–8, 13, 153, 252, 311, 312, 317, 335 342, 347, 349, 355, 356, 359 360, 362, 364, 421, 448, 695 696, 728; 21.12–9, 158, 276 491, 544, 549, 563, 667, 736
(47) European U.S.S.R., 21.1–8, 51, 415, 473, 515, 516, 520, 523, 592, 794; 21.2–39, 40, 61, 173, 257, 271, 318, 320, 324; 21.3–273, 278, 488, 560, 654; 21.4–178; 21.5–182, 473, 477, 494; 21.6–461, 662; 21.7–105, 244, 308, 441, 522, 558, 591; 21.8–457; 21.9–96, 207, 273, 279, 384, 402, 75R; 21.10–334, 399, 416, 732; 21.11–310, 337, 357, 424; 21.12–50, 168, 480, 591
  Anapa, 21.12–797
  Caucasus, 21.3–30; 21.4–212, 279; 21.7–125; 21.9–326; 21.10–356
  Colchis, 21.1–797; 21.6–778; 21.11–723
  Kisel, Perm Region, 21.10–341
  Leningrad, 21.12–145
  Odessa, 21.10–368
  Podmoskovnaia Runoff Station, 21.12–681
  Sal'skiĭ Steppe, 21.7–530
  Transcaucasia, 21.1–634; 21.2–328; 21.10–109, 309, 707; 21.11–121; 21.12–167
(470) R.S.F.S.R. (European), 21.5–619; 21.9–385
  Archangel, 21.6–219
  Arzamas, 21.2–272
  Baddon Valley, 21.9–333
  Briansk Region, 21.8–542
  Central Black Earth Region, 21.4–520; 21.8–417; 21.10–464; 21.11–358, 708
  Central Regions, 21.12–477
  Franz-Josef Land, 21.5–309
  Gorki, 21.2–206, 222, 229, 272; 21.10–482; 21.11–724
    Gorki Reservoir, 21.2–608;

21.6–793, 798; 21.10–762, 768
Heiss Island, 21.6–198, 458
Kabardino-Balkar Region, 21.9–332; 21.11–382
Kalinin, 21.11–326
Karelia Peninsula, 21.1–597
Komi A.S.S.R., 21.5–752
Krasnodar Region, 21.1–290
Kuibyshev, 21.7–316
Kuibyshev Reservoir, 21.4–601; 21.9–336
Ladoga Basin, 21.12–661
Leningrad, 21.5–347, 670; 21.6–348; 21.7–316, 680
Voekova Airport, 21.10–110
Leningrad Region, 21.1–197
Loparskaya, 21.1–664; 21.2–384
Mordov A.S.S.R., 21.11–724
Moscow, 21.1–433; 21.2–227; 21.3–627; 21.5–347, 471; 21.6–56; 21.9–192, 246; 21.11–194, 344; 21.12–153, 302, 400, 486
Bykovo Airport, 21.10–110
Vnukovo Airport, 21.9–254; 21.10–32
Moscow Region, 21.8–520
Murmansk, 21.8–256
Nal'chik, 21.9–214
Northern Caucasus, 21.3–613; 21.7–648; 21.9–88, 667; 21.11–380, 416
Novorossiisk, 21.1–525
Obninsk, 21.1–653; 21.3–617; 21.4–222, 223, 240; 21.5–515; 21.7–556, 602; 21.12–15
Palovo, 21.5–734
Povolzh'e, 21.12–394
Privolzhskoe, 21.3–18
Rilsk, 21.4–135
Rostov, 21.1–284, 422; 21.9–122
Samara, 21.10–371
Shosseinaia, 21.1–111
Sogra, 21.2–384; 21.5–734
Sverdlovsk, 21.1–316; 21.11–344
Tatar, 21.4–600
Tsimliansk, 21.8–347
Ural Region, 21.11–714
Valdai, 21.1–107, 194; 21.6–344, 533, 771; 21.7–483; 21.8–344, 347
Vnukovo, 21.7–28, 626
Voeikovo, 21.6–348; 21.11–27
Volga Region, 21.9–88; 21.12–515
Upper Volga Region, 21. 101, 125, 251
Volgograd Region, 21.4–334
Vologda Region, 21.7–31 21.8–542
Zvenigorod, 21.6–392; 21. 332; 21.8–347; 21.11–288
(474.2) Estonian S.S.R., 21.6–459
Pandiveretsk, 21.11–729
(474.3) Latvian S.S.R.
Riga, 21.7–699; 21.9–274
(474.5) Lithuanian S.S.R., 21.10–34,
(476) Belorussian S.S.R., 21.2–6 21.6–97; 21.9–379
Minsk, 21.2–181
(477) Ukrainian S.S.R., 21.1–774; 21. 204, 244, 321, 322; 21.3–9, 3 652; 21.4–249, 588; 21.5–2 594, 595; 21.7–121, 564; 21. 383, 393, 394, 404, 496, 7 21.9–208, 289, 310, 395, 3 21.10–254; 21.11–432, 698, 70 21.12–159, 526, 533, 568, 5 669
Artemovsk, 21.11–706
Boguslav, 21.8–377
Chernovice, 21.1–614
Crimea, 21.5–431; 21.11–710
Crimean Basin, 21.7–772
Dnepropetrovsk Region, 21. 594, 639; 21.8–402
Dnieper Central Region, 21. 629
Dnieper Middle Region, 21. 629
Donbas Region, 21.11–699, 7
Kharkov, 21.1–511; 21.2–227
Kiev, 21.2–535; 21.3–416; 21. 432, 769
Kiev Reservoir, 21.12–665
Lugansk Region, 21.11–704
Odessa, 21.5–432; 21.7–677
Pridesnia, 21.8–377, 464
Tarkhankutsk Region, 21. 701
Transcarpathia, 21.12–155,
Yalta, 21.2–337
(478.9) Moldavian S.S.R., 21.4–302; 21. 119; 21.9–334, 32R; 21.10–77 21.11–709
(479.22) Georgian S.S.R., 21.4–126, 5 21.10–358; 21.11–115
Abastumanskaia, 21.11–287
Abastumani, 21.12–279
Batumi, 21.5–471; 21.11–279
Tiflis, 21.9–180

79.24) Azerbaijanian S.S.R., 21.1–647; 21.10–391
  Baku, 21.5–447
  Lenkorani, 21.1–615; 21.12–397
79.25) Armenian S.S.R., 21.9–57R; 21.10–73R; 21.11–731; 21.12–169
  Erevan, 21.6–428; 21.7–440
8) SCANDINAVIA, 21.5–501; 21.10–521; 21.12–52
80) **Finland,** 21.1–127; 21.2–521; 21.4–171; 21.5–429, 585; 21.9–199R–202R; 21.11–67R, 68R, 95R; 21.12–328, 458
  Helsinki Airport, 21.9–77
  Jokioinen, 21.1–121
  Sodankylä, 21.1–131
81) **Norway,** 21.4–327; 21.8–140, 691, 805; 21.9–210R; 21.10–778; 21.11–95R
  Alpine Region, 21.8–513
  Andöya, 21.5–308; 21.8–613
  Tromsø, 21.9–446
85) **Sweden,** 21.2–51; 21.4–532, 534, 542, 554, 571; 21.5–559, 757, 778; 21.6–796; 21.7–143, 218, 480, 609; 21.8–505; 21.9–656; 21.10–706; 21.11–95R
  Göteborg, 21.5–261
  Kiruna, 21.6–230; 21.7–410, 420
  Scania, 21.4–547
  Söderala, 21.4–540
  Southern Sweden, 21.4–545
  Uppsala, 21.7–420; 21.12–255
  Verka, 21.4–504
89) **Denmark,** 21.2–519; 21.3–643
  Copenhagen, 21.1–476
91.1) **Iceland,** 21.3–332; 21.5–438; 21.6–47, 401, 529; 21.9–206R; 21.10–783
91.2) **Faroe Islands,** 21.12–339
92) **Netherlands,** 21.5–71, 133, 193, 566, 612; 21.6–600; 21.7–793; 21.8–707; 21.9–205, 128R, 208R, 209R; 21.10–449, 450, 757; 21.11–95R; 21.12–51
  Bilthoven, 21.1–578
  Emmen, 21.5–193
  Rhine Delta Region, 21.8–317
  Rotterdam, 21.5–284; 21.12–85
  Smilde, 21.5–193
  Vlaardingen, 21.12–213
93) **Belgium,** 21.1–130; 21.5–1, 15, 68, 483; 21.7–788; 21.8–32; 21.9–35, 627, 657, 128R, 195R–197R; 21.10–725; 21.11–66R, 95R; 21.12–214, 391, 408
  Dourbes, 21.9–198R
  Ghent, 21.7–220
  Tailles Plateau, 21.9–572
  Uccle, 21.1–435, 436, 532; 21.3–681
(494) **Switzerland,** 21.2–293; 21.3–102, 545; 21.8–552; 21.11–78R
  Arosa, 21.1–328; 21.7–166; 21.8–541
  Basel, 21.1–138
  Davos, 21.8–535, 536; 21.9–220R
  Jungfraujoch, 21.7–747; 21.10–663
  Locarno, 21.5–714; 21.11–43
  Locarno-Monti, 21.5–509
  Payerne, 21.3–94
  Thalwil, 21.7–166
  Ticino, 21.7–662
  Zurich, 21.3–615; 21.7–48, 167
(495) **Greece,** 21.6–683
  Athens, 21.2–217; 21.5–424; 21.9–204R
  Cephalonia, 21.10–733
  Sounion, 21.8–245
  Thessalonike, 21.11–69R
(496.1) **Turkey,** 21.1–770; 21.10–704
(497) BALKAN STATES, 21.4–100
(497.1) **Yugoslavia,** 21.4–583; 21.7–508
(497.2) **Bulgaria,** 21.2–246, 630; 21.3–128, 258; 21.4–164; 21.7–519, 657; 21.8–556; 21.9–360; 21.11–209
  Balchikskiĭ Bay, 21.4–420
  Cherni Vrakh, 21.1–518
  Elena, 21.5–31
  Iskretz, 21.1–793
  Maritsa Basin, 21.8–396
  Michurin, 21.5–347
  Northern Bulgaria, 21.7–650
  Pernik Plain, 21.2–195
  Sofia, 21.1–518; 21.2–387; 21.3–499; 21.4–11, 310; 21.5–347
(498) **Rumania,** 21.1–396; 21.3–38, 291, 478, 491, 556, 564; 21.4–81, 213, 537; 21.5–154, 158, 187, 188, 620, 642; 21.6–4, 51, 99, 432, 443–445; 21.7–311, 791, 802; 21.9–387, 398; 21.10–715; 21.11–99R
  Bucharest, 21.3–555; 21.6–608; 21.7–596; 21.9–214R, 215R; 21.10–42; 21.12–564, 660
  Calugareasea, 21.11–307
  Cluj, 21.2–194; 21.4–340, 382
  Contesti-Titu Region, 21.1–782

Craiova Area, 21.10–722
Danube Valley, 21.3–548
Dobrudja, 21.4–555; 21.8–237
Jassy, 21.3–257, 552
Moldava Valley, 21.4–535
Olt Basin, 21.5–760
Southern Rumania, 21.6–614
Turnu Severin, 21.1–784
(5) ASIA, 21.2–97; 21.6–512; 21.8–313; 21.10–447; 21.11–50R
(5–011) MIDDLE EAST, 21.1–59
(5–012) FAR EAST, 21.2–97; 21.9–104, 28R; 21.10–447
(5–11) EASTERN ASIA, 21.1–512; 21.8–328, 506
(5–13) SOUTHERN ASIA, 21.5–608; 21.7–309
(5–17) NORTHERN ASIA, 21.8–506
(510) **China,** 21.1–10; 21.5–510; 21.7–592; 21.8–512; 21.10–10
North China Plain, 21.5–621
Northern China, 21.5–621
(510–13) **South China,** 21.4–119
(512.317) **Hong Kong,** 21.1–612; 21.2–261; 21.4–95; 21.9–153
(512.318) **Macao,** 21.9–37; 21.10–105R
(517.3) **Mongolia,** 21.10–454, 32R
(519) **Korea,** 21.9–512
South Korea, 21.11–95R
(520) **Japan,** 21.3–140; 21.4–717; 21.5–418, 525; 21.7–224; 309; 21.8–318, 389, 408, 409, 444, 458, 502, 540, 614; 21.9–315, 409, 434, 436, 570; 21.10–175, 252, 471, 474, 593, 52R, 70R–72R, 79R, 85R, 97R, 101R, 102R; 21.11–56, 381, 387, 689, 697, 95R
Akune, 21.10–98R
Ashizuri Peninsula, 21.10–86R
Chugoku District, 21.8–503
Fukushima, 21.8–521
Gifu Prefecture, 21.10–95R
Hokkaido, 21.7–447; 21.8–323; 21.10–93R
Tomakomai District, 21.10–99R
Hokoziku District, 21.6–617
Hot Spring, Akita, 21.5–759
Kagoshima, 21.8–194; 21.10–98R
Kagoshima Airport, 21.10–76R
Kanoya, 21.10–104R
Kanto, 21.8–337
Kanto District, 21.6–471; 21.8–504
Kinki District, 21.12–148, 14
Kurushima Straits, 21.10–
Kyoto, 21.1–471
Kyushu, 21.6–140
Kyushu District, 21.11–118
Lake Biwa Region, 21.11–
716
Memambetsu, 21.10–103R
Moshiri, 21.9–341
Nagoya, 21.7–431; 21.12–32
Niigata, 21.6–261
Osaka, 21.2–263; 21.5–253
Sado Island, 21.1–577
San'in District, 21.8–431
Sapporo, 21.3–36; 21.7–
21.11–88R
Shikoku District, 21.8–
21.9–320; 21.11–117
Shionomisaki, 21.10–332
Tagokura Reservoir, 21
740, 741
Takinami Basin, 21.8–437
Tohkatta, 21.7–359
Tohoku District, 21.8–
21.9–317; 21.11–52
Toikanbetsu, 21.2–270; 2
292
Tokyo, 21.6–655; 21.7–
21.8–314, 326; 21.9–433
Haneda Airport, 21.12–
152
Tokyo Airport, 21.10–8
21.12–560
Tone River Basin, 21.10–96
Wakayama, 21.1–471
Watarase, 21.11–328
Western Japan, 21.7–96; 2
410, 411
Yuzawa, 21.8–461
(528.3) **Ryukyu Islands**
Miyakojima, 21.10–248; 21
382
(529.1) **Taiwan,** 21.7–789; 21.8–
21.10–558; 21.11–275
(53) **Arabia,** 21.8–229
(532) **Saudi Arabia,** 21.8–791, 832
El Hasa, 21.3–97; 21.11–67
Wadi as Sobha, 21.1–660
(536) **Trucial Coast and East**
bian States, 21.6–682
(536.8) **Kuwait,** 21.11–95R
(54) **Indo-Pakistan Subcontin**
21.5–511; 21.12–569
Gangetic Plain, 21.4–128; 2
559

- 40) **India,** 21.2–264; 21.3–174, 226, 436; 21.4–127, 321; 21.5–374, 513; 21.6–54, 143, 197, 214, 499; 21.7–216, 454, 492, 494, 496, 497, 692, 784; 21.8–397; 21.9–285, 314; 21.10–384; 21.11–463, 492; 21.12–349, 532
  - Agartala, 21.5–58
  - Ahmedabad, 21.5–451; 21.10–481
  - Begumpet, 21.9–106
  - Bengal West, 21.6–537
  - Bombay, 21.4–113; 21.7–462; 21.11–502
  - Calcutta, 21.7–590, 625; 21.8–398
  - Central India, 21.10–703
  - Damodar Catchment, 21.10–394
  - Delhi, 21.5–203, 343; 21.10–393
  - Digha, 21.2–561
  - Ganga Canal, 21.10–561
  - Godavari Basin, 21.8–395
  - Hyderabad, 21.3–536; 21.9–480; 21.10–182
  - Jodhpur, 21.8–576
  - Kodaikanal, 21.11–195, 197
    - Kodaikanal Observatory, 21.8–711
  - Madras, 21.3–502; 21.12–479
  - Meerut District, 21.12–691
  - Nagpur, 21.3–502; 21.7–475
  - New Delhi, 21.5–442
  - Northern India, 21.7–498, 624
  - Poona, 21.11–502
  - Ratnagiri, 21.5–191
  - Roorkee, 21.3–695
  - Southern India, 21.6–330; 21.8–392; 21.9–321; 21.10–388
  - Thumba, 21.5–312; 21.7–495; 21.8–169; 21.10–181
  - Tirupati, 21.11–197
  - Trombay, 21.4–80, 207
  - Uttar Pradesh, 21.4–400; 21.9–316, 584
  - Visakhapatnam, 21.4–114
  - Waltair, 21.3–502; 21.12–309
  - Western India, 21.6–534
- 1.35) **Nepal,** 21.11–60, 102R
- 8.7) **Ceylon,** 21.4–313; 21.9–130R; 21.12–450
  - Colombo, 21.2–77
- 9) **Pakistan,** 21.4–552; 21.9–608; 21.11–95R
  - East Pakistan, 21.8–452
  - Indus Plains, 21.3–709
  - Makran Coast, 21.11–761
  - Sonmiani, 21.12–369
- (55) **Iran,** 21.1–779; 21.2–539; 21.7–790
  - Central Elburz, 21.10–452
  - Tehran, 21.9–424; 21.10–312
- (560) **Turkey,** 21.10–704; 21.11–57, 95R
  - Euphrates Basin, 21.7–791
- (564.3) **Cyprus,** 21.2–95; 21.11–95R
  - Nicosia, 21.10–251
- (567) **Iraq,** 21.10–64R
- (569.1) **Syria,** 21.10–64R
- (569.3) **Lebanon,** 21.10–64R; 21.11–95R
- (569.4) **Israel,** 21.1–766; 21.2–3, 520; 21.4–341; 21.7–118, 671; 21.8–127, 790, 838; 21.9–18; 21.10–65R; 21.11–11, 343
  - Bet Dagan, 21.10–268
  - Carmel Region, 21.4–553
  - Haifa, 21.11–449
  - Hule Valley, 21.11–450
  - Jerusalem Region, 21.8–770
    - Jerusalem, 21.12–513
  - Kinneret Valley, 21.11–451
  - Lake Kinneret Region, 21.12–685
  - Lod Airport, 21.11–340
  - Negev Desert, 21.4–394
  - Upper Jordan River Area, 21.11–450
- (569.5) **Jordan,** 21.3–292; 21.10–64R
  - Azraq Basin, 21.1–795
- (57 + 47) **Union of Soviet Socialist Republics,** *see* (47 + 57)
- (57) Asiatic U.S.S.R., 21.2–181, 574; 21.6–446; 21.9–91R, 92R; 21.12–574
  - Kyzl-Kum, 21.5–435
  - Northeastern Asiatic U.S.S.R., 21.8–479
  - Syr Darya Basin, 21.11–399
- (57–191.2) Central Asiatic U.S.S.R., 21.1–382, 417; 21.2–94; 21.4–179, 521; 21.5–556, 647; 21.6–136; 21.7–301, 646; 21.9–112, 271
  - Fergansk Valley, 21.9–335
- (571) Asiatic R.S.F.S.R. (Siberia), 21.3–570; 21.4–216, 306; 21.10–242
  - Blagoveshchensk, 21.12–547
  - Chita, 21.7–316
  - Eastern Siberia, 21.3–553
  - Gizhiga, 21.9–248
  - Irkutsk, 21.3–562; 21.5–670; 21.7–314; 21.9–274; 21.12–290, 313

Bratsk Reservoir, 21.9–17R
Maritime Territory, 21.2–534, 587, 595
Middle Priob'ye Region, 21.2–297
Nagaevo, 21.11–27
Northwestern Siberia, 21.12–1
Novosibirsk, 21.10–486
Novosibirsk Reservoir, 21.2–610
Novosibirsk–Akademgorodok, 21.10–479
Piasina Valley, 21.6–467
Primorskiy Kray, 21.10–552
Shadrinsk, 21.9–150
Shantar Islands, 21.2–800
Southern Siberia, 21.12–724
Southwestern Siberia, 21.9–199
Soviet Far East, 21.3–553
Taimyr Peninsula, 21.7–316
Tiksi Bay, 21.11–513
Transbaikal, 21.4–248; 21.5–543; 21.8–798; 21.10–466
Tuva Region, 21.7–818
Vasiugan, 21.9–212
Vladivostok, 21.5–468; 21.11–344
Western Siberia, 21.3–261, 394, 560, 623; 21.4–417; 21.5–182; 21.6–146; 21.7–105, 489, 535; 21.8–690; 21.9–308, 345, 349, 356; 21.11–415; 21.12–156, 443
West Siberian Plain, 21.5–749
Yakutsk A.S.S.R., 21.4–177; 21.9–246
(574) Kazakh S.S.R., 21.1–647; 21.2–572, 589; 21.3–261, 623; 21.4–260, 516, 528, 567, 590; 21.5–746; 21.6–543; 21.7–322, 646; 21.8–378; 21.9–158, 306, 356; 21.10–483; 21.12–163, 578
Alma-Ata, 21.3–50; 21.5–343
Alma-Ata Airport, 21.12–524
Aral Sea Region, 21.2–566
Golodnaya Steppe, 21.4–397; 21.7–539
Kulundinskaya Steppe, 21.6–546
Kustanai Region, 21.7–528
Mangyshlak Peninsula, 21.3–620
Northern Kazakh, 21.12–402
Pavlodarsk Region, 21.2–569
Pskem Valley, 21.9–109, 111
(575,1) Uzbek S.S.R., 21.9–319
Amu Darya Delta, 21.9–281; 21.10–557
Tashkent, 21.1–234, 239,
316; 21.2–178; 21.3–280,
21.4–218; 21.5–471,
21.9–246, 274, 299
(575.2) Kirghiz S.S.R., 21.6–511,
21.8–451
(575.3) Tadzhik S.S.R., 21.5–554;
525; 21.11–444
Gissar Valley, 21.5–557
Parkharsk Region, 21.4–398
Vakhsh, 21.9–51R
Vakhsh Valley, 21.6–463;
527
(575.4) Turkmenian S.S.R., 21.7–
531; 21.12–166
Eastern Kara-Kum, 21.10–
(581) **Afghanistan,** 21.11–95R
Kabul, 21.3–184; 21.5–439
(59) **Southeast Asia,** 21.3–655;
271, 312; 21.5–306, 510,
21.6–303; 21.8–391
(591) **Burma,** 21.5–661
(593) **Thailand,** 21.2–341; 21.4–
316; 21.8–349, 388; 21.9–
571; 21.10–532, 556; 21.
95R; 21.12–118
(595) **Malayasia,** 21.6–356
(595.13) **Singapore,** 21.1–136, 142;
353; 21.11–455
Christmas Island, 21.5–520
Paya Lebar, 21.8–41
(596) **Cambodia,** 21.2–295
(597) **Vietnam,** 21.7–76; 21.10–446
(597.3) **South Vietnam,** 21.8–560;
132R; 21.11–95R
Saigon, 21.6–764
(598) **Laos,** 21.7–663; 21.8–560;
131R
(6) AFRICA, 21.1–22; 21.4–239,
21.5–410; 21.6–499, 604;
285, 607, 778; 21.9–367,
21.10–470; 21.11–7, 12,
21.12–4, 5, 10, 125, 384, 535,
(6–11) Eastern Africa, 21.1–533
(6–191.2) Central Africa, 21.7–616
(6–213) Tropical Africa, 21.12–570
(61) North Africa, 21.4–309;
591; 21.7–300
(611) **Tunisia,** 21.1–608; 21.11–95R
(612) **Libya,** 21.10–448; 21.11–95R
(620) **Egypt,** 21.4–552; 21.7–794;
563; 21.11–95R
Bahtim, 21.11–9
(624) **Sudan,** 21.6–595; 21.7–589, 610
Khasm El Girba, 21.11–545
(63) **Ethiopia,** 21.10–448; 21.11–95
(64) **Morocco,** 21.10–417, 698

56) WEST AFRICA, 21.2–258, 316; 21.3–103; 21.5–564; 21.6–318; 21.11–457; 21.12–370–372, 704
561) **Sahara Region,** 21.11–470, 469
562.6) **Niger**
  Termit, 21.5–659
563) **Senegal**
  Dakar, 21.11–484
  Dakar Yoff Airport, 21.12–388
  M'Bour, 21.5–740
565.8) **Cape Verde Islands,** 21.7–664
566) **Liberia,** 21.11–95R
566.8) **Ivory Coast,** 21.3–1
  Abidjan, 21.5–577
569) **Nigeria,** 21.4–552; 21.9–425
  Ibadan, 21.3–107; 21.8–200
  Maiduguri, 21.8–200
57) EQUATORIAL AND CENTRAL AFRICA, 21.2–258, 316; 21.3–103; 21.5–410; 21.7–449; 21.12–398
572.1) **Gabon,** 21.11–95R
572.4) **Congo,** 21.6–495
573) **Angola,** 21.10–41
575) **Democratic Republic of Congo,** 21.8–327; 21.9–36; 21.11–95R
576) EAST AFRICA, 21.1–23; 21.3–105; 21.6–648; 21.8–390, 485; 21.9–5, 303, 305, 354, 362; 21.10–46, 73, 387; 21.11–42R, 91R; 21.12–23
576.1) **Uganda,** 21.11–95R
  Kakira, 21.10–431
  Makerere, 21.5–740
  Namulonge, 21.10–256
576.2) **Kenya,** 21.9–261; 21.10–130; 21.11–95R; 21.12–147
  East Rift District, 21.10–465
  Kitale, 21.9–311
  Nairobi, 21.5–190; 21.6–359
  Ol Joro Orok, 21.10–463
577.1) **French Territory of Afars and Issas,** 21.10–43
578) **Tanzania,** 21.3–105; 21.9–261
  Mufundi, 21.9–352
578.2/9) **Tanganyika**
  Arusha Chini, 21.9–351
58) SOUTHERN AFRICA, 21.7–616
580) **South Africa,** 21.1–23; 21.2–331; 21.5–65, 563; 21.6–596, 672; 21.7–721; 21.11–95R
  Far West Rand, 21.9–624
  Natal, 21.10–335
  Pietermaritzburg, 21.12–478
  Pretoria, 21.3–409
  Vaal Reservoir, 21.8–348
581) **Botswana,** 21.6–596; 21.11–95R
  Kalahari, 21.4–325
  Ngamiland, 21.4–325
(686.1) **Lesotho,** 21.8–245; 21.11–95R
(688) **Southwest Africa,** 21.6–596
  Tsumeb, 21.3–518; 21.6–387
(689.1) **Rhodesia**
  Sabi Valley, 21.4–574
(689.4) **Zambia,** 21.4–256, 320, 497, 498; 21.5–189, 514; 21.7–593, 613
(689.7) **Malawi,** 21.9–363; 21.11–283
(691) **Malagasy Republic,** 21.12–126
  Madagascar, 21.11–93R
(698.2) **Mauritius,** 21.1–41
(699.1) **South Indian Ocean Outlying Islands**
  Gan Islands, 21.7–42
  Kerguelen Islands, 21.6–62, 219
  Marion Island, 21.5–77
  Roma, 21.8–245
(699.2) **St. Helena (and dependencies)**
  Ascension Island, 21.4–15
  Gough Island, 21.5–77
(7) NORTH AMERICA, 21.1–625; 21.3–219, 414; 21.5–62, 185, 408, 466; 21.6–544; 21.7–389; 21.9–567; 21.10–779; 21.11–498, 89R; 21.12–283, 378
  Great Plains, 21.3–483; 21.9–278; 21.10–333
    East Central Great Plains, 21.6–547
(7–11) EASTERN NORTH AMERICA, 21.3–689
(7–15) WESTERN NORTH AMERICA, 21.3–754; 21.7–270; 21.11–747
(71) **Canada,** 21.1–68, 212, 235, 500; 21.2–512, 554; 21.3–10, 144, 749; 21.4–12, 357; 21.5–79, 166, 489, 589; 21.6–739, 760; 21.7–92, 97, 149, 400, 707, 805; 21.8–99, 441, 555, 685; 21.9–125, 262, 635, 637, 647, 121R, 223R; 21.10–38, 530; 21.11–55, 101, 95R; 21.12–565, 22R
  Central Canada, 21.11–222
  Great Plains, 21.6–435
  Marmot Creek, 21.7–676
  Prairies, 21.6–425
  Southern Canada, 21.4–252
(711) British Columbia, 21.3–579; 21.7–795; 21.11–423
  Lower Fraser Valley, 21.7–443
  Vancouver Island, 21.1–502, 618
  Victoria, 21.2–403
(712.1) Yukon Territory, 21.10–253

(712.2) Northwest Territories
  Axel Heiberg Island, 21.10–781
  Baffin Island, 21.3–581; 21.4–308; 21.10–774
  Cape Ricketts, 21.10–773
  Devon Island, 21.12–722
  Ellesmere Island, 21.5–74; 21.11–753
    Alert, 21.8–714
  Resolute, 21.7–410; 21.9–210
  Resolute Bay, 21.8–715; 21.10–152
  Tanquary Fiord, 21.11–58
(712.3) Alberta, 21.1–635; 21.3–579; 21.4–301; 21.9–338
  Calgary, 21.1–510; 21.4–350; 21.5–266
  Cypress Hills, 21.4–349; 21.9–373
  Edmonton, 21.5–266; 21.10–517
  Graburn Creek, 21.8–466
  Suffield, 21.10–108
(712.4) Saskatchewan, 21.9–641
  Cypress Hills, 21.4–349
  Regina, 21.11–278
  Saskatoon, 21.6–386; 21.11–524
(712.7) Manitoba, 21.6–466
  Churchill, 21.2–161; 21.5–83; 21.7–158, 410, 501; 21.10–184, 520
  La Rivière, 21.1–411
  Melita Area, 21.9–632
  Wilson Creek, 21.9–650
  Winnipeg, 21.4–351
(713) Ontario, 21.5–84; 21.6–466; 21.7–647; 21.8–221, 695, 716; 21.9–598; 21.11–273
  Hamilton, 21.4–352
  London, 21.5–497
  Malton, 21.1–311
  Muskoka, 21.1–311
  Ottawa, 21.7–148, 649; 21.9–210
  Simcoe, 21.6–354
  Toronto, 21.4–354; 21.5–507; 21.6–665
  Waterloo, 21.6–824
(714) Quebec, 21.3–656; 21.4–353; 21.8–322, 467; 21.10–360, 385; 21.11–309; 21.12–58
  Great Whale River Region, 21.9–450
  Magdalen Islands, 21.9–623
  Mont St. Hilaire, 21.11–284
  Montreal, 21.1–132; 21.4–191; 21.5–245; 21.6–616; 21.7–
    426
(715) New Brunswick, 21.1–617; 21.
    456
  St. John River Valley, 21.1
    128
(716) Nova Scotia
  Musquodoboit Harbour, 21.
    563
(718) Newfoundland
  Labrador, 21.3–656
(72) **Mexico,** 21.2–176, 304; 21.7–59
    21.8–836; 21.10–461
  Acapulco, 21.2–698
  Aguascalientes, 21.6–49
  Baja California, 21.6–640
  Hermosillo, 21.4–506
  Mexico City, 21.5–260; 21.
    401
  Monterrey, 21.9–613
  Punta Penesca airport, 21.
    637
  San Juan del Rio Valley, 21.
    683
  Sinaloa, 21.6–641
  Sonora, 21.6–641
(728) CENTRAL AMERICA, 21.4–230, 3
(728.1) **Guatemala,** 21.9–654; 21.11–95
(728.3) **Honduras,** 21.11–95R
(728.4) **El Salvador,** 21.1–605; 21.2–1
    21.3–445
(728.6) **Costa Rica,** 21.11–95R
  Alajuela, 21.4–401
(728.7) **Panama**
  Colon, 21.7–505
(728.79) **Panama Canal Zone,** 21.2–289
  Fort Sherman, 21.2–290
(729) **Caribbean Region,** 21.2–38
    21.3–468; 21.6–604; 21.9–13
    21.12–133, 384
(729.1) **Cuba,** 21.3–19; 21.4–109; 21.
    551; 21.8–498; 21.10–718
(729.2) **Jamaica,** 21.6–338
  Kingston, 21.6–217
(729.5) **Puerto Rico,** 21.8–181; 21.1
    204
  Arecibo, 21.6–236, 244; 21.
    201, 208
  Pico del Oeste, 21.7–618
  Ramey AFB, 21.9–101
(729.68) **Turks and Caicos Islands**
  Grand Turk Island, 21.5–520
(729.72) **British Virgin and Leewar**
Islands
  Antigua, 21.5–520

- (729.81) **Martinique (and dependencies)**
  - Fort-de-France, 21.10–389
- (729.86) **Barbados**, 21.7–505
- (729.88) **Netherlands Antilles**, 21.9–693
- (73) **United States**, 21.1–80, 154, 306, 309, 478, 514, 623, 633; 21.2–44, 57, 184, 192, 285, 339, 551, 576, 579, 659, 713; 21.3–22, 270, 276, 296, 300, 301, 364, 766–769; 21.4–98, 151, 199, 339, 409, 410, 412, 414, 634; 21.5–32, 59, 89, 150, 151, 295–297, 335, 337, 360, 602, 638, 666, 677; 21.6–107, 159, 260, 611; 21.7–14, 92, 283, 294, 617, 619, 621, 801, 805; 21.8–22, 99, 105, 126, 135, 151, 230, 532, 774, 788, 836; 21.9–44, 120, 127, 128, 388, 389, 399, 400, 228R, 230R–232R, 236R, 237R, 240R–243R, 245R, 246R; 21.10–5, 24, 48, 114, 142, 462, 739, 56R; 21.11–20, 114, 493, 95R; 21.12–9, 267, 268, 274, 335, 698
  - Central Plains, 21.8–537
  - Northern Plains, 21.10–551
- (73–11) Eastern U.S., 21.3–472; 21.4–252; 21.5–152, 175, 421; 21.7–95; 21.8–102; 21.9–131; 21.11–119
- (73–14) Southwestern U.S., 21.4–118; 21.7–534, 615
  - Navajo and Hopi Indian Reservations, 21.4–538
- (73–15) Western U.S., 21.1–241, 288; 21.5–467, 521; 21.6–424; 21.7–588; 21.8–370–373; 21.11–694
- (73–16) Northwestern U.S., 21.2–96; 21.11–456
- (73–191.2) Central U.S., 21.1–257, 566; 21.2–16; 21.4–252; 21.5–152, 205, 422, 470; 21.6–440
- (74) Northeastern (New England) States, 21.1–412, 569, 622; 21.3–210, 417; 21.4–157; 21.6–325, 472; 21.7–310; 21.9–226R
- (741) Maine, 21.9–234R
- (742) New Hampshire
  - Gorham, 21.7–436
  - Greenfield, 21.10–392
  - Pease AFB, 21.9–100
- (743) Vermont, 21.12–100
- (744) Massachusetts, 21.7–510; 21.9–229R; 21.10–136
  - Boston, 21.1–624; 21.5–522; 21.7–354; 21.8–436
  - Millstone Hills, 21.8–173
  - Milton, 21.3–318
  - Nantucket, 21.1–262
  - South Dartmouth, 21.12–445
- (746) Connecticut, 21.1–124; 21.5–236
- (747) New York, 21.7–131, 438; 21.8–73, 676; 21.10–415, 719
  - Elmira, 21.5–196
  - Geneva, 21.1–139
  - Long Island, 21.7–606
    - East Meadow Brook, 21.11–426
  - New York City, 21.6–655; 21.7–135, 430; 21.11–158; 21.12–232
- (748) Pennsylvania, 21.8–693; 21.10–141, 420
  - Philadelphia, 21.5–264
    - University Park, 21.3–355
  - Pittsburgh, 21.5–288
- (749) New Jersey, 21.1–536; 21.8–415, 604; 21.9–634
  - Atlantic City, 21.3–288
  - Fort Monmouth, 21.11–204
  - McGuire AFB, 21.9–102
- (75) Southeastern (South Atlantic) States, 21.7–612; 21.9–654; 21.12–655
- (752) Maryland
  - Baltimore, 21.5–649
  - Cheltenham, 21.2–167
- (753) District of Columbia (Washington, D.C.), 21.4–386; 21.7–169, 360; 21.10–549
  - Washington National Airport, 21.8–74
- (754) West Virginia, 21.2–193; 21.7–444; 21.8–419; 21.11–277
- (755) Virginia, 21.2–191; 21.7–786; 21.9–606
  - Charlottesville, 21.7–458
  - Wallops Island, 21.3–594; 21.5–83; 21.10–40
- (756) North Carolina, 21.1–509; 21.2–653
  - Charlotte, 21.2–277
  - Fontana Reservoir, 21.4–593
  - Wrightsville Beach, 21.1–730
- (757) South Carolina, 21.1–479; 21.2–12, 291, 292; 21.6–43; 21.7–455; 21.10–45, 441–443
  - Clemson, 21.10–442
  - Lake Hartwell Area, 21.4–314
- (758) Georgia, 21.11–268, 454
  - Lake Hartwell Area, 21.4–314
- (759) Florida, 21.1–271; 21.2–1; 21.3–307; 21.4–110; 21.5–221, 532;

21.7–491; 21.8–131, 353, 689; 21.10–497, 728; 21.11–269; 21.12–201
  Cape Kennedy, 21.1–237; 21.2–233; 21.3–170, 465, 474, 476, 479, 481, 588, 589, 616; 21.4–224; 21.6–479; 21.7–292; 21.10–325; 21.11–230, 234
  Eglin, 21.5–311
  Eglin AFB, 21.2–234
  Gainesville, 21.8–350
  Kennedy Space Center, 21.8–330; 21.10–69
  Miami, 21.7–30; 21.9–120R
  Tarpon Springs, 21.10–733
(76) Southern Central (Gulf) States, 21.7–287, 491, 612; 21.8–625; 21.9–654
(761) Alabama
  Montgomery, 21.4–224
(762) Mississippi, 21.4–335
  Jackson, 21.2–607
(763) Louisiana, 21.3–460; 21.8–381
  Baton Rouge, 21.10–727
(764) Texas, 21.1–413, 582; 21.4–220; 21.6–334, 599; 21.8–794; 21.10–215, 67R
  Austin, 21.5–610; 21.12–83
  Cedar Hill, 21.1–506
  Dallas, 21.8–475
  Freeport, 21.1–730
  Palestine, 21.2–124; 21.5–45
  Riesel, 21.10–679
  Southern High Plains, 21.2–611
(766) Oklahoma, 21.1–413; 21.3–444; 21.4–307; 21.7–472; 21.9–235R; 21.10–215
  Holdersville, 21.12–396
  Oklahoma City, 21.3–606; 21.5–603
(767) Arkansas, 21.9–239; 21.11–717
  Lawrence County, 21.4–544
  Randolph County, 21.4–544
  Woodruff County, 21.10–409
(768) Tennessee, 21.9–107; 21.10–680
  Nashville, 21.7–257
  Oak Ridge, 21.10–226
(769) Kentucky, 21.5–651; 21.9–242
(77) North Central (Lake) States, 21.1–777; 21.8–115; 21.12–392
(771) Ohio, 21.2–262; 21.3–27; 21.7–298; 21.8–730; 21.10–427, 445
  Cincinnati, 21.5–108, 264; 21.11–482
  Columbus, 21.6–188
  Dayton, 21.5–603
  Scioto Valley, 21.4–562
(772) Indiana
  Ft. Wayne, 21.6–450
(773) Illinois, 21.2–586; 21.3–221; 21.4–299; 21.5–135, 303, 639; 21.6–91, 622; 21.7–678; 21.8–67
21.10–410, 424; 21.12–396
  Central Illinois, 21.11–276
  Champaign, 21.5–649
  Chicago, 21.5–264, 649; 21.7–620; 21.12–233
(774) Michigan, 21.1–631
  Detroit–Port Huron Region
21.6–187
  Wurtsmith AFB, 21.8–361
21.12–140
(775) Wisconsin, 21.3–505; 21.6–633
(776) Minnesota, 21.1–601; 21.4–259; 21.5–279; 21.6–753; 21.9–263
372
  Cedar River, 21.9–239R
  St. Paul, 21.1–438; 21.4–169
(777) Iowa, 21.2–188; 21.10–678
  Ames, 21.5–610
  Charles City, 21.1–409
  North Liberty, 21.3–716
  Ralston Creek Basin, 21.5–624
(778) Missouri, 21.2–549; 21.6–631
  St. Louis, 21.8–139
(78) Western (Mountain) States, 21.1–661, 777; 21.2–46, 294; 21.3–34; 21.8–115, 339
(781) Kansas, 21.2–564, 592; 21.4–115; 21.7–173
  Blue River Valley, 21.1–789
  Clinton-Sherman AFB, 21.3–290
  Manhattan, 21.2–100; 21.6–549
(782) Nebraska, 21.4–231; 21.7–173, 536
  Mead, 21.3–644
  Ogallala, 21.10–729
  Omaha, 21.7–573
  O'Neill, 21.7–499
  Scottsbluff, 21.5–220
(783) South Dakota, 21.2–557; 21.3–306; 21.6–619; 21.11–143
  Big Sioux Drainage Basin,
21.1–767
(784) North Dakota, 21.4–333; 21.8–124
  Minot, 21.5–603
(786) Montana
  Helena, 21.11–163; 21.12–144
  Hungry Horse, 21.12–198
(787) Wyoming, 21.2–600; 21.4–319; 21.8–517; 21.10–566

Wind River Indian Reservation, 21.2–556
Yellowstone Park, 21.5–724; 21.9–437
(788) Colorado, 21.1–61, 567, 609; 21.4–300; 21.6–624, 786; 21.7–638; 12.8–636; 21.9–394; 21.10–553; 21.11–139; 21.12–189, 319, 696
Boulder, 21.1–545; 21.2–230; 21.4–361; 21.5–325, 328; 21.7–167, 516; 21.9–86; 21.10–53R
Climax, 21.11–145
Colorado Springs, 21.1–123
Denver, 21.9–613; 21.11–372; 21.12–501
Durango, 21.3–401; 21.5–610
Fraser, 21.4–227
Ft. Collins, 21.5–610
Grand Junction, 21.3–401
Park Range, 21.10–146
San Luis Valley, 21.7–319
Steamboat Springs, 21.8–129
(789) New Mexico, 21.4–143; 21.5–257; 21.6–165; 21.7–523; 21.8–511, 625; 21.9–206; 21.10–748; 21.12–240
Alamogordo, 21.8–242
Albuquerque, 21.7–487
Holloman AFB, 21.8–595
Los Alamos, 21.3–404; 21.8–620
Roswell, 21.1–730
White Sands, 21.1–163, 481, 493; 21.2–234; 21.3–607; 21.6–531; 21.7–499; 21.10–135; 21.11–497
(79) Pacific States, 21.1–661; 21.5–609; 21.8–516; 21.9–313
(791) Arizona, 21.1–57, 584; 21.2–203; 21.4–533; 21.6–52, 765; 21.7–118; 21.9–610; 21.10–313; 21.12–693
Atterbury, 21.9–339
Beaver Creek, 21.4–510
Buckeye, 21.2–330
Flagstaff, 21.1–55; 21.5–212; 21.6–588; 21.10–132
Fort Huachuca, 21.1–480; 21.8–435
Little Leroux Spring, 21.8–453
Phoenix, 21.5–454; 21.10–275; 21.12–241
San Juan Valley, 21.2–305
Santa Cruz, 21.9–574
Shonto Plateau, 21.11–446
Tucson, 21.8–376, 590
Yuma, 21.6–440
(792) Utah, 21.9–576, 590, 227R; 21.11–105R
Dugway Proving Ground, 21.7–84
Green River, 21.3–135
Jordan Valley, 21.2–563
Midway, 21.4–575
Monticello, 21.3–401
Salt Lake City, 21.3–401
Salt Lake County, 21.8–515
(793) Nevada, 21.1–627; 21.2–565; 21.3–3; 21.4–243; 21.6–540; 21.11–333
Elko County, 21.2–260
Jackass Flats, 21.1–162; 21.8–374
Tonopah, 21.12–207
Yucca Flats, 21.1–162, 506
(794) California, 21.1–627; 21.2–332, 381, 550; 21.3–115; 21.4–133; 21.5–201, 651; 21.6–126; 21.7–514, 777; 21.8–834; 21.9–38, 225R; 21.10–313, 340, 434; 21.11–462, 38R; 21.12–272
China Lake, 21.5–578
Coachella Valley, 21.1–151
Colorado Desert, 21.11–476
Davis, 21.2–186; 21.12–359
Edwards AFB, 21.4–389
El Capitan, 21.4–594
Lemoore, 21.10–124
Los Angeles, 21.1–302; 21.3–305; 21.5–243, 251; 21.6–666; 21.7–146, 698; 21.11–103, 186; 21.12–108, 414
Los Angeles Airport, 21.8–138
Mojave Desert, 21.5–423
Monterey, 21.6–2
Pine Hills, 21.1–57
Sacramento, 21.2–186; 21.3–305
San Bernardino Valley, 21.2–552
San Diego, 21.1–730
San Francisco, 21.3–397; 21.4–39, 225; 21.11–334, 376
Santa Clara County, 21.2–273
Santa Monica, 21.2–233
Southern California, 21.11–249
(795) Oregon, 21.1–627; 21.8–379, 440
Corvallis, 21.11–375
Eugene
Mahlon Sweet Airport, 21.11–116

    Portland
      Portland International Airport, 21.11–375
(796) Idaho, 21.10–566; 21.11–395
    Moscow, 21.11–515
    Reynolds Creek, 21.8–795
(797) Washington, 21.6–569, 570; 21.10–566, 577; 21.11–45R; 21.12–518, 726
    Cheney Reservoir, 21.11–739
    Grays Harbor, 21.6–785
    Hanford, 21.1–484; 21.12–361
    Kent, 21.12–387
    Rathdrum Prairie, 21.1–781
    Seattle, 21.1–286
    Stampede Pass, 21.7–552
(798) Alaska, 21.2–516; 21.3–734, 735; 21.5–592; 21.6–301; 21.7–134, 190; 21.9–581, 233R; 21.10–3, 96, 157, 400, 784; 21.11–263, 377, 752; 21.12–217
    Anchorage, 21.9–290
    Barrow, 21.1–453; 21.5–83; 21.6–456; 21.12–218
    College, 21.5–739; 21.7–174; 21.10–526; 21.11–528
    Fairbanks, 21.3–650, 685; 21.5–382; 21.10–311; 21.12–523
    Fort Greely, 21.3–366
    Glacier Bay, 21.11–751
    Juneau Icefield, 21.10–775
    Kotzebue, 21.10–501
    Point Barrow, 21.12–514
(8) SOUTH AMERICA, 21.10–117R; 21.11–477
(8-6) LATIN AMERICA, 21.6–762
(81) **Brazil,** 21.1–602; 21.6–643, 647; 21.7–665; 21.11–95R
    Barreira do Inferno, 21.5–80
    Fernando Noronha, 21.1–528
    Goias State, 21.11–474
    Natal, 21.5–83; 21.8–243
    Piracicaba, 21.11–285; 21.12–404
    Rio de Janeiro, 21.12–409
    São Paulo, 21.7–18; 21.10–119R
(82) **Argentina,** 21.8–342; 21.9–615, 629, 692; 21.11–95R
    Buenos Aires, 21.8–387
    Buenos Aires Province, 21.5–753; 21.9–631
    Chaco Region, 21.8–508
    La Rioja, 21.9–633
    Santa Cruz Province, 21.2–317
    Tierra del Fuego, 21.10–118R
(828) **Patagonia,** 21.8–522
(829.1) **Falkland Islands (and dependencies),** 21.8–34; 21.9–380
(83) **Chile,** 21.2–575; 21.7–771; 21.11–95R
(85) **Peru,** 21.2–311; 21.11–95R
    Huancayo, 21.2–167; 21.11–204
    Jicamarca, 21.5–739
    Lambayeque Valley, 21.10–723
    Pampa de La Joya, 21.7–315
    Puerto Chicama, 21.2–213
(861) **Colombia,** 21.8–529; 21.10–120R, 121R
(87) **Venezuela,** 21.1–645; 21.11–95R
(881) **Guyana,** 21.8–678; 21.10–560; 21.11–95R
(883) **Surinam,** 21.1–778; 21.10–122R
(892) **Paraguay,** 21.11–95R
(899) **Uruguay,** 21.11–95R
(9) AUSTRALASIAN, OCEANIC, ARCTIC, AND ANTARCTIC REGIONS
(910) **Indonesia,** 21.6–57, 356; 21.8–510; 21.11–95R
    Bali, 21.1–292
    Batavia, 21.2–338
    Kayumas, 21.6–597
(914) **Philippines,** 21.7–597; 21.9–565, 122R; 21.11–95R
(931) **New Zealand,** 21.6–783; 21.9–611, 614; 21.10–2; 21.11–95R
    Auckland, 21.11–165; 21.12–261, 262
    Campbell Island, 21.7–190
    Canterbury, 21.5–655
    Christchurch, 21.2–167; 21.7–434
    Molesworth, 21.9–368
    North Island, 21.9–625
    South Island, 21.9–626
(94) **Australia,** 21.1–66, 404; 21.3–408, 456; 21.4–151, 257; 21.5–526; 21.6–349, 481; 21.7–118, 773, 792; 21.8–351, 784; 21.9–575, 640; 21.10–113R; 21.11–67, 445, 452, 95R; 21.12–343, 567, 15R
(94-11) Eastern Australia, 21.4–283
(94-191.2) Central Australia, 21.1–646
(941) Western Australia, 21.10–114R
    Laverton, 21.3–123; 21.12–57
(942) South Australia, 21.1–264
    Adelaide
      Buckland Park, 21.11–173
    Salisbury, 21.11–30
    Woomera, 21.2–14; 21.3–126, 127, 327, 373; 21.7–201; 21.11–61

- (943) Queensland, 21.8–487; 21.9–358
  - Brisbane, 21.11–181, 466; 21.12–395
  - Burdekin Delta, 21.9–618
  - Darling Downs, 21.2–49
- (944) New South Wales, 21.3–621; 21.9–616; 21.12–386
  - Benandra State Forest, 21.12–558
  - Port Kembla, 21.7–620
  - Sydney, 21.1–796; 21.12–389
- (944.9) Capital Territory (Canberra), 21.5–669
- (945) Victoria, 21.8–123, 130; 21.10–353
  - Aspendale, 21.1–327; 21.5–255
  - Bacchus Marsh, 21.6–594; 21.10–352
  - Gambier Plain, 21.10–354
  - Kerang, 21.10–337
  - Merbein, 21.10–735
  - Mildura, 21.3–133
- (946) Tasmania, 21.1–265; 21.9–109R; 21.12–505
  - Macquarie Island, 21.5–73; 21.8–303
- (948) Northern Territory
  - Brocks Creek, 21.7–622
  - Darwin, 21.5–491; 21.6–518
- (954/955) Papua and New Guinea, 21.9–562
- (96) Polynesia and Micronesia, 21.6–356
  - Fiji Islands
    - Yasawa-i-Rara Island, 21.8–835
  - Johnston Island, 21.1–530
  - Line Islands, 21.3–484; 21.7–345
  - Palmyra Island, 21.5–506
  - Wake Island, 21.2–338
- (961.1) **British Crown Colony of Fiji,** 21.11–95R
- (961.4/5) **Ellice and Phoenix Islands**
  - Canton Island, 21.3–438; 21.5–519; 21.7–275
- (962.3) **Cook Islands**
  - Rarotonga, 21.10–155
- (963) **French Polynesia,** 21.10–115R, 116R
- (968.1) **Marshall Islands,** 21.6–324
  - Kwajalein, 21.3–315
- (969) **Hawaii Islands,** 21.2–368; 21.4–645, 759; 21.5–329, 358, 467; 21.6–567; 21.7–354; 21.8–110, 614; 21.9–92, 567, 622, 233R
  - Haleakala, 21.1–470
  - Hilo, 21.8–654
  - Honolulu, 21.10–155
  - Kauai, 21.1–530; 21.12–207
  - Maui, 21.7–360; 21.10–155
  - Mauna Loa, 21.10–35
  - Mauna Loa Observatory, 21.5–508
  - Oahu Island, 21.8–478
- (97) Scattered Islands
- (97:265) **Pacific Islands,** 21.5–4
- (97:269) **Southern Ocean Islands**
  - Macquarie Island
    - Buckles Bay, 21.10–501
- (98/99) POLAR (ARCTIC AND ANTARCTIC) REGIONS, 21.1–125; 21.3–676; 21.4–393; 21.7–187, 191; 21.8–17; 21.9–46; 21.11–306
- (98) **Arctic,** 21.2–695 21.3–12, 13, 784; 21.4–99, 120, 165, 168; 21.5–392, 400, 782; 21.6–426, 442, 512, 618, 642; 21.8–224; 21.9–12, 251, 298, 437, 736, 40R, 72R, 224R; 21.10–69R; 21.11–447, 44R, 51R; 21.12–295
- (984) European Arctic sector
  - Spitsbergen, 21.1–330; 21.2–622, 624; 21.4–1, 338; 21.9–39; 21.10–778
    - Hornsund, 21.6–788
    - Isbjörnhamna Hornsund, 21.4–502
    - West Spitsbergen, 21.10–780
  - Svalbard, 21.1–133; 21.12–49
    - Eastern Svalbard, 21.11–743
- (985) Soviet Arctic sector, 21.6–650; 21.10–154
  - Chelyuskin, 21.5–433
  - Dickson Island, 21.4–223; 21.5–433; 21.12–424
- (987) American Arctic sector, 21.5–777; 21.7–827; 21.9–25
  - Axel Heibert Island, 21.1–758
  - Canadian Arctic, 21.9–369
  - Ellesmere Island, 21.12–714
  - Mesters Vig District, 21.10–14
  - Thule, 21.10–152
- (988) Greenland, 21.1–141; 21.2–47; 21.7–389; 21.8–438; 21.9–679; 21.10–408, 776, 786; 21.11–745
  - Cape Century, 21.12–725
    - Camp Century, 21.4–297; 21.8–526; 21.9–328
  - Nord, 21.3–98
  - Thule, 21.3–692
  - Ubekendt Ejland, 21.5–776
- (99) **Antarctica,** 21.1–22, 513, 676; 21.2–202, 418, 621, 684; 21.3–11, 121, 379, 449, 753; 21.4–251,

359, 368, 610, 611; 21.5–22, 76, 78, 223, 342, 353, 672; 21.6–242, 363, 494, 618; 21.7–267, 271, 418; 21.8–34, 39, 238, 255, 427, 438, 449, 527, 577, 583, 800; 21.9–40, 155, 72R; 21.10–50, 154, 408, 455, 469, 772, 62R, 106R, 110R–112R; 21.11–80, 94, 490, 27R, 41R; 21.12–53 to 56, 295, 318, 327, 718, 725
Adelaide Island, 21.2–620
Amundsen-Scott Base, 21.3–692; 21.10–480
Banger Oasis, 21.3–493
Byrd, 21.5–739; 21.9–450; 21.11–520
  Byrd Station, 21.7–393, 395, 410
Central Antarctica, 21.11–396
Dumont d'Urville Station, 21.9–370; 21.10–109R
Eastern Antarctica, 21.11–217, 313
Enderby Land, 21.11–742
Halley Bay, 21.2–376
McMurdo Sound, 21.2–639
MacRobertson Land, 21.10–339
Mawson, 21.5–73
Mirny, 21.3–493, 614; 21.4–49, 159; 21.6–196; 21.8–43, 256; 21.9–288; 21.11–314; 21.12–275
Molodezhnaya, 21.5–633
  Molodezhnaya Oasis, 21.4–315
  Molodezhnaya Station, 21.3–493; 21.7–690; 21.8–37 21.11–397
Novolazarevskaya Station, 21.8–38
Plateau Station, 21.4–330 21.8–384; 21.12–358, 559
Pram Point, Ross Island, 21.2–640
Princess Astrid Coast, 21.8–44
Queen Maud Land, 21.1–140 21.5–630
Roi Baudouin Base, 21.1–337 21.2–115; 21.3–120, 328 21.5–81; 21.6–48; 21.8–44 598; 21.10–107R, 108R
Schirmacher Oasis, 21.3–678 21.9–661
Scott Base, 21.2–190
Showa Base, 21.2–371, 374 382; 21.4–13
Showa Station, 21.3–367; 21.5–286; 21.8–290, 305; 21.9–44
South Pole, 21.10–529
Victoria Land, 21.1–764; 21.5–17
  Southern Victoria Land 21.6–817
Vostok, 21.3–537; 21.8–40, 714 715; 21.9–170; 21.10–152
Wilkes, 21.1–762; 21.5–73

TABLE OF CONTENTS

Vol. 21, 1970

Issue number	Month	Page	Number of abstracts
1	Jan.	*1*	800
2	Feb.	*275*	800
3	March	*553*	800
4	April	*807*	794
5	May	*1069*	800
6	June	*1333*	850
7	July	*1611*	850
8	Aug.	*1895*	850
9	Sept.	*2173*	750
10	Oct.	*2449*	840
11	Nov.	*2735*	790
12	Dec.	*3019*	810
Indexes	Jan.–Dec.	*3293*	

TABLE OF CONTENTS

Meteorological and Geoastrophysical Abstracts

Volume 21, INDEXES, Jan.–Dec. 1970

Errata ....
List of Bibliographies ....
List of Periodicals ....

INDEXES

AUTHOR (with titles) 32
SUBJECT (with authors) 37
GEOGRAPHIC 39